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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) A comprehensive study was conducted for the Department of Justice to determine what factors influence human incapacitation by handgun bullets. An evaluation of the effectiveness of nearly all commercial handgun bullets was made. As part of this study, each bullet was fired into a gelatin tissue simulant. This report is a supplement to the overall program methodology and results presented in BRL Report entitled: "Ammunition for Law Enforcement: Part I, Methodology for Evaluating Relative Stopping Power and Results." Presented (continued)		

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in this report is the data recorded for each bullet as it penetrated the gelatin tissue simulant as measured by flash x-ray and high-speed cinematographic techniques.

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I. INTRODUCTION

In December 1972, the National Institute of Law Enforcement and Criminal Justice of the Law Enforcement Assistance Administration approved and funded a project, submitted by the Law Enforcement Standards Laboratory (LESL) of the National Bureau of Standards, to conduct a study of the terminal effects of police handgun ammunition. LESL late in 1973 contracted with the U.S. Army Ballistic Research Laboratories (BRL) to conduct the study and prepare a report of its findings. The purpose of the study was to provide federal, state and local law enforcement agencies with a criterion for use in selection of handgun ammunition; a criterion which considers not only the offensive capabilities of the ammunition, but also the safety factors concerning innocent bystanders. The purpose was not specifically to show that studies by previous investigators were invalid, but to bring the salient features of these previous studies together with a more detailed and updated description of the entire scenario to produce a unified approach to the problem which would allow an objective evaluation of handgun effectiveness.

To place the question of handgun effectiveness on the level of an objective approach, three primary terminal characteristics of handgun ammunition were studied:

1. Relative Incapacitation of Human Targets (i.e., relative stopping power).
2. Ricochet Hazards.
3. Material Penetration Characteristics.

As the focus of the study was on commercially available handgun ammunition in the caliber range from 0.355 (9mm) through 0.45, an extensive laboratory investigation of all significantly different handgun bullets available to law enforcement agencies in the United States was conducted. The report deals with experiments performed for the relative incapacitation portion of the study from which the following data were extracted:

- 1A. Measurement of the formation and subsequent development of the temporary cavity produced in tissue simulant by each bullet as a function of striking velocity.
- 1B. Measurement of the general dynamic behavior of each bullet as it penetrated the tissue simulant, its stability, and deformation, as a function of striking velocity.

- 1C. Measurement of the impact velocity by factory loaded ammunition corresponding to each bullet under study when fired from various handguns currently used by law enforcement agencies.

The data presented in the following section were gathered during Part 1A of this study. This report is a supplement to the overall program methodology and results. The volume of the data generated during this study requires that the results be presented in three separate reports as follows:

Ammunition for Law Enforcement: Part I, Methodology for Evaluating Relative Stopping Power and Results.

Ammunition for Law Enforcement: Part II, Data on Cavity Formation and Bullet Deformation During Penetration of Tissue Simulant.

Ammunition for Law Enforcement: Part III, Photographs of Bullets Recovered After Impacting Tissue Simulant.

II. EXPERIMENTAL TECHNIQUES

The purpose of this portion of the study was to determine the effect of such bullet parameters as geometry, construction, mass, velocity, and manufacturer on the penetration through tissue simulant and the ultimate effect of these parameters on wound formation and resultant relative stopping power.

1. Ammunition. The ammunition used in this phase of the study consisted primarily of hand loaded ammunition in calibers .357 through .45. Bullet velocities were adjusted such that striking velocities varied nominally between 120 m/s and 700 m/s. Bullets used in this study were obtained from commercial manufacturers within the United States. All weights and type bullets available from these manufacturers were evaluated. The manufacturers were chosen such that the vast majority of bullets used in commercial handgun cartridges could be evaluated. The actual bullet manufacturers considered were:

- a. Winchester-Western
- b. Remington-Peter
- c. Super Vel
- d. Smith & Wesson
- e. High Precision
- f. Zero

- g. Hornady
- h. Sierra
- i. Speer
- j. Glaser
- k. MB Associates
- l. KTW

Obviously, the above list does not include all manufacturers of ammunition for two reasons. First, many other manufacturers use the above bullets in their loaded cartridges and differences in stopping power would only depend on velocity, and second, this list comprises over 90 percent of the bullets available on the market. Concurrence in using the above list was given by the LESL project officer.

For the actual gelatin firings, actual service weapons were not used. Since one of the more important parameters under investigation was the effect of bullet velocity on stopping power, it was necessary to examine velocity levels below and well above those experienced from standard cartridges from standard weapons. In the case of high velocity testing, chamber pressures exceeded those permissible in standard handguns. For safety reasons, then, Mann test barrels were used. At this point it should be noted that even though stopping power results were generated up to velocities approaching 700 m/s, the powder charges necessary to attain these velocities from standard handguns may be well above acceptable safety limits and should be approached with caution.

The justification for testing at non-standard velocities was many-fold. As is well documented in previous studies by many investigators, different type bullets deform differently as a function of velocity. It was the purpose of this study to develop a general criteria which requires that stopping power be known as a continuous function of velocity. To this end, it was important to know the degree of degradation experienced in stopping power if lower than standard velocities are used, i.e., velocities below which deformation of the bullet occurs. Also, it was important to determine if the effects of possible excess deformation or fragmentation of the bullet at higher than standard velocities enhances or degrades stopping power. Additionally, if only commercial loadings were used and stopping power reported for these particular cartridges, future changes in loading specifications by a manufacturer to alter velocity would make the stopping power estimate meaningless. Also, bullet muzzle velocity depends on the particular type handgun being used and it was felt that law enforcement agencies should test fire their weapon/ammunition combination to determine actual muzzle velocities which in turn could be used to calculate the stopping power more precisely.

2. Tissue Simulant. The target material used was gelatin purchased from the Kind and Knox Gelatin Company specified as Ordnance Type 250A. The gelatin powder was mixed with water (20 percent gelatin by weight) to form 15cm x 15cm x 30cm blocks for testing. Given below is a standard "recipe" for preparing the gelatin blocks for testing.

a. Materials.

- (1) Pharmagel A. Gelatin, Kind and Knox Gelatin Company, Ordnance Type 250A. Home Office: Johnstown, New York; production plant: Camden, New Jersey.
- (2) Thymol, available from Fisher Scientific Company and many local chemical and pharmaceutical companies.
- (3) Pyrex or stainless steel container, 20 to 30 liter capacity for mixing gelatin.
- (4) Stirrers, electric, heavy duty.
- (5) Containers, stainless steel, for use as molds, 15cm wide, 15cm high, 30cm long. Other size containers are used depending upon the size gelatin target desired.

b. Method.

Place 12,000 grams of hot water (at least 65°C) in the 20 to 30 liter container. Place two electric stirrers in the hot water. It has been found that it is preferable to place one stirrer near the top of the container and the other stirrer near the bottom. Add three grams of thymol* and dissolve in the hot water. Add 3,000 grams of Pharmagel A to the hot water. It is often helpful to supplement the stirring by manually breaking up any lumps of undissolved gelatin with a stainless steel rod or paddle.

After the gelatin has completely dissolved, which usually requires 5 to 15 minutes, turn off the stirrers and remove the stirrers from the gelatin solution. Allow bubbles and foam to rise to the surface of the gelatin. This usually requires 15 to 20 minutes.

The 20 percent gelatin solution is then transferred to the 15cm x 15cm x 30cm containers. If the original mixing container does not have a spigot at the bottom, it is necessary to remove the foam from the top of the gelatin before transferring the solution. Allow the gelatin to remain at room temperature for at least one hour after transferring. Any additional foam which rises to the surface may be removed.

* Cinnamon oil may be substituted - one drop per liter.

Place the gelatin in a refrigerator, blood bank, or similar device at 0° to 5° C. overnight. The gelatin may be removed from the stainless steel container by placing the stainless steel container in a container of hot water. After about 15 seconds, loosen the gelatin from the sides of the container with a spatula and after one to two minutes, remove the gelatin from the hot water. The gelatin may be removed by inverting the gelatin container. Allow the gelatin to remain at room temperature for about one hour. The gelatin is then placed in heavy duty plastic bags to prevent evaporation which will drastically change the consistency of the gelatin. The 20 percent gelatin is usually stored at 10° C. (50°F.) since the consistency of the gelatin is a function of the temperatures.

c. X-Ray Measurements.

Flash x-ray photographs were taken for each test shot of the bullet penetrating the gelatin targets. These photographs provide information on the extent and type of deformation experienced by the bullets. Figures 1 through 3 show the experimental set-up employed and the relation of the x-ray tubes to the gelatin target. Figure 4 shows a typical x-ray photograph for a jacketed hollow point bullet penetrating gelatin. Similar data were taken for all other bullets. Estimates of the presented area and cross-sectional area versus penetration depth which were calculated for each bullet can be found in the accompanying tables. Presented area is defined as the component of the cross-sectional area normal to the line of flight. Cross-sectional area is the maximum area of the bullet at each penetration depth.

d. Cavity Measurements.

High-speed motion pictures were taken for each test shot to determine how the temporary cavities in gelatin varied in size and shape for different bullet types and velocities. The relation of the high-speed camera to the gelatin target can be seen in Figure 1. Photographic floodlights were placed behind the gelatin target to provide backlighting for the motion pictures as seen in Figure 2.

A 60 meter roll of film was used for each shot, with maximum attained film speed of approximately 10,000~~6~~fps.* The formation and subsequent growth of the cavity is clearly shown in these movies. A typical sequence from a high-speed movie is shown in Figure 5 for a .45 caliber full jacketed bullet. Typically, the bullet itself is discernible in these films but refractive effects of the gelatin and the formation of the cavity preclude the actual measurements of the bullet shape or orientation from the movies. Consequently, the x-ray photographs, unaffected by the presence of the gelatin, were taken to observe bullet behavior during penetration.

The measure chosen as the indicator of the actual damage produced in tissue was the maximum temporary cavity (MTC) formed in the gelatin.

* *frames/sec*

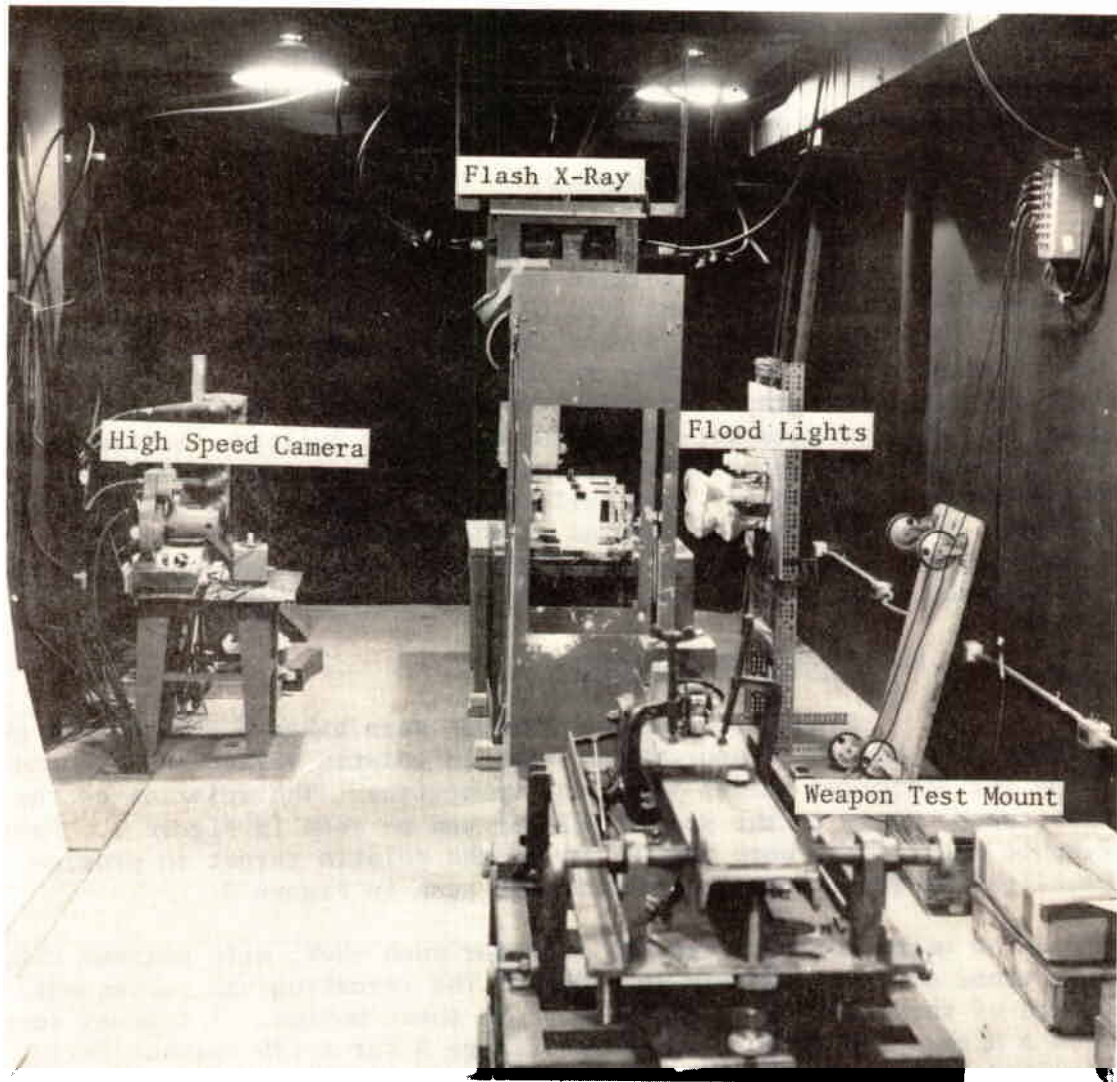


Figure 1. Photograph of Small Arms Test Range

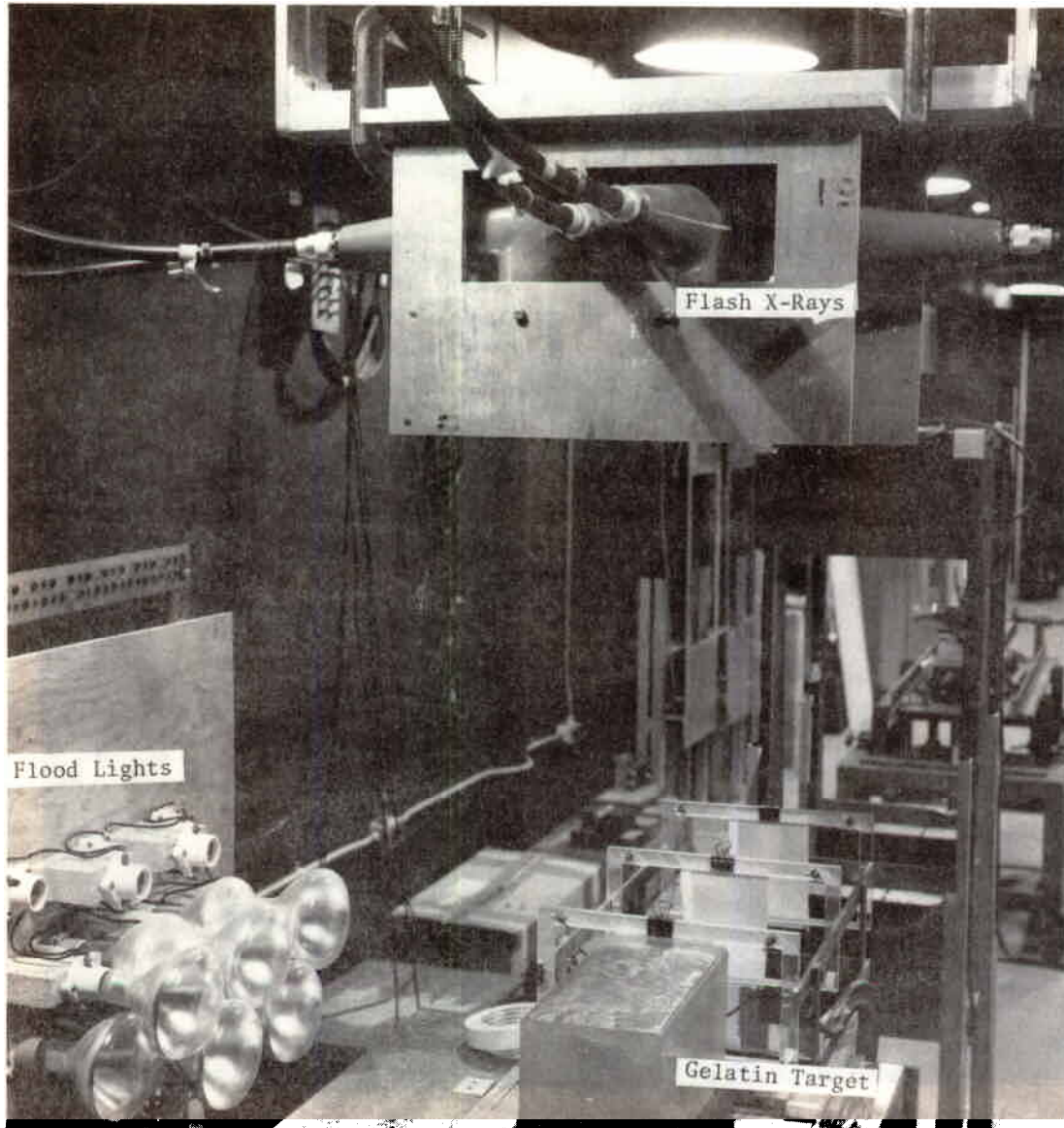


Figure 2. Relationship of X-Ray Tubes to Gelatin Target

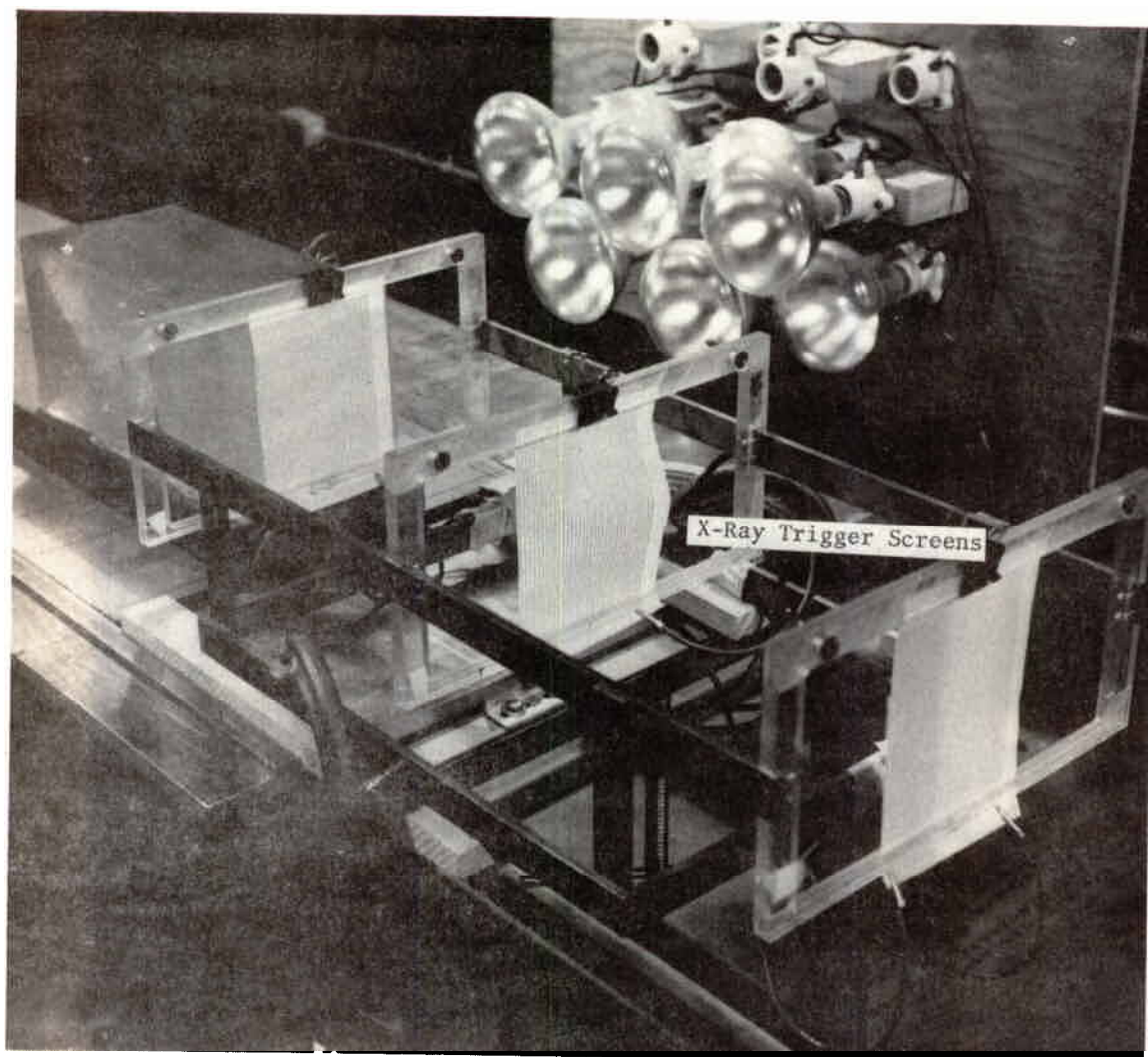


Figure 3. Relationship of X-Ray Trigger Screens and Photographic Lights to the Gelatin Target

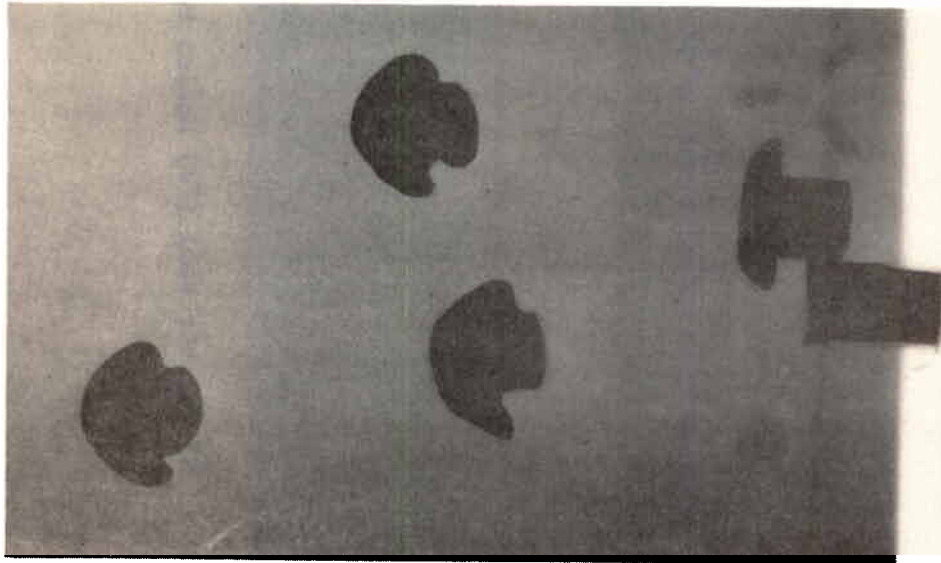


Figure 4. X-Ray Photograph of a JHP, .357 Bullet Penetrating Gelatin

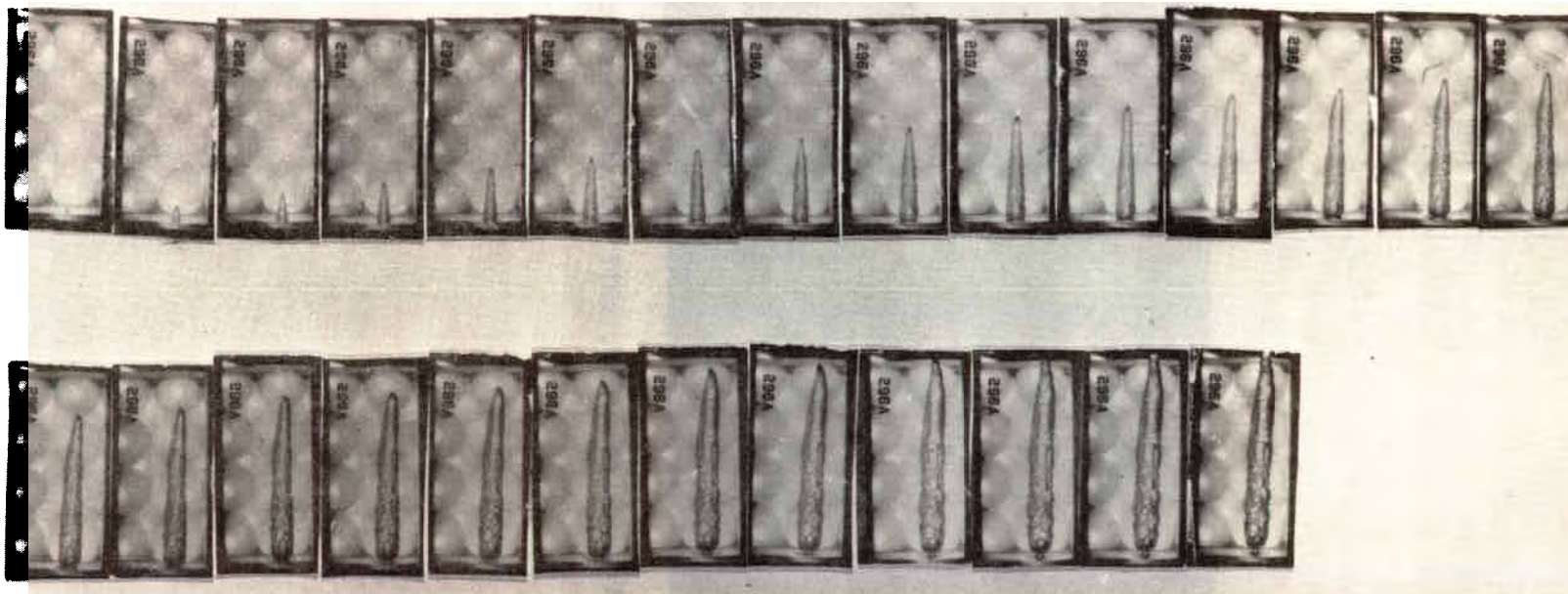


Figure 5. High-Speed Film Sequence of a .45 Caliber Ball (FJ) Bullet Penetrating Gelatin

S-W, JHP, .357 MAG

VELOCITY: ——— 341m/sec (1119f/sec)

----- 339m/sec (1293 f/sec)

----- 526m/sec (1727f/sec)

..... 261m/sec (855 f/sec)

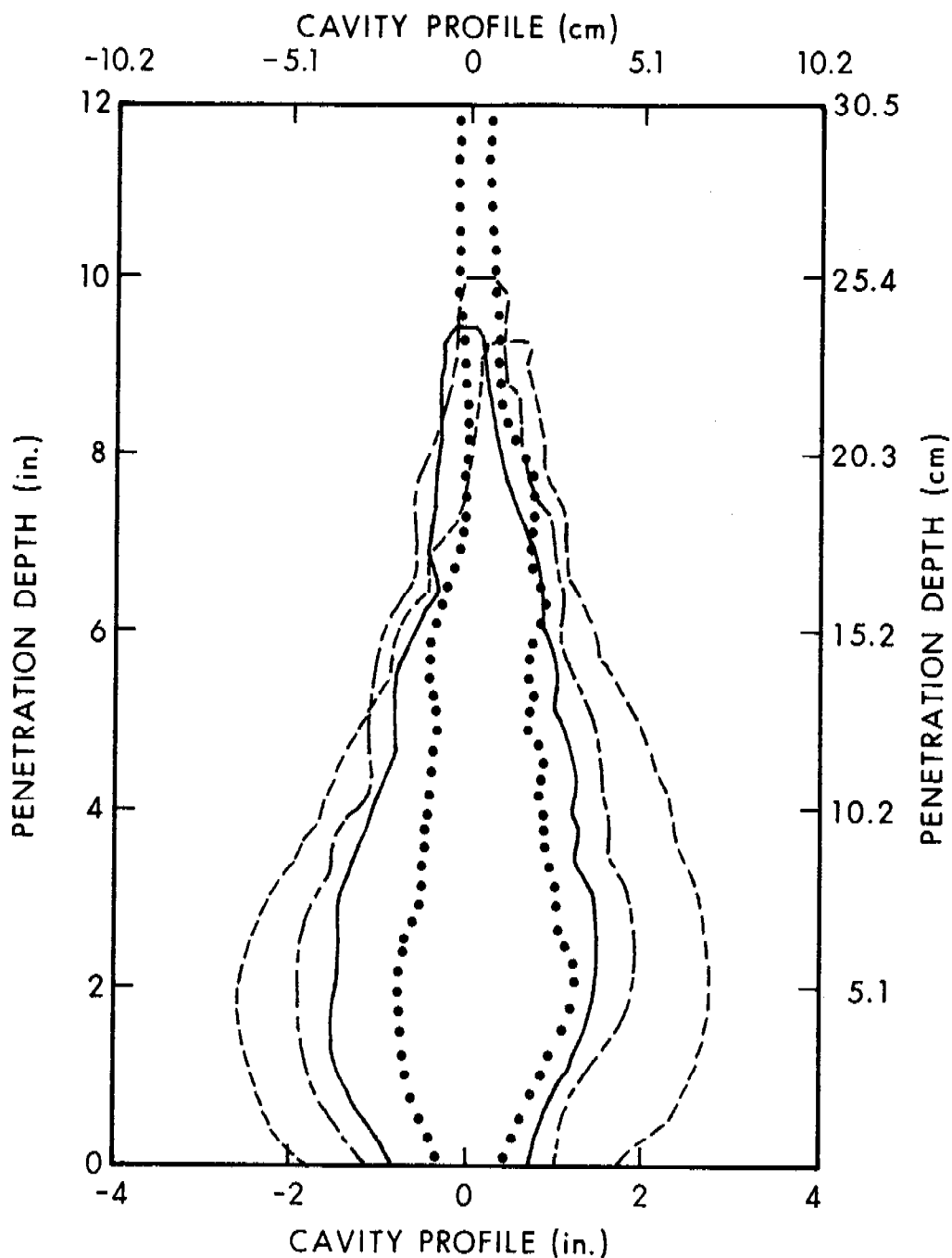


Figure 6. Tracing of Typical Maximum Temporary Cavities Formed in Gelatin Tissue Simulant by Handgun Bullets.

The film for each test shot was viewed on a motion analyzer and the contour of the cavity traced frame by frame. A typical tracing is shown in Figure 6. A digitizer was then used to record the scaled coordinates of the envelope of these cavities from these tracings at increments along the z-axis of approximately 5mm.

III. RESULTS

Data recorded by the 16mm high-speed camera was analyzed using a Telecomputing Telereadex Model 29E Film Analyzer. For each round fired the size and shape of the maximum temporary cavity formed in the gelatin simulant was measured versus the depth of penetration of the bullet. These measurements were taken at approximately 5mm increments along the bullet trajectory through the simulant. These data were stored on computer cards for later tabulation and subsequent plotting of the resultant cavity contours.

The multiple flash x-ray system provided photographs of bullet deformation during penetration of the simulant. These records were analyzed using a Telecomputing Chart Reader, Model 099. Both the cross-sectional area of the bullet and its area normal to the direction of the bullet motion, i.e., presented area, were measured versus penetration depth for each test round fired and this data was stored on computer punch cards for later processing.

Both the digitized high-speed cinematographic and flash x-ray data were then processed using the Ballistic Research Laboratories BRLESC* high-speed computer to determine relative incapacitation indices for all rounds fired. Additionally, the data recorded for each round was printed in tabular form together with a computer plot of measuring maximum temporary cavity formed by each bullet in tissue simulant. Presented in Appendix A are computerized records organized as follows:

1. Manufacturers are listed alphabetically.
2. Within manufacturer, the data are presented from smallest to largest caliber.
3. Within caliber, the data are presented in the following order for construction type:
 - a. Full Jacket (FJ)
 - b. Full Metal Case (FMC)
 - c. Full Metal Jacket (FMJ)
 - d. Jacketed Hollow Point (JHP)

* *Ballistic Research Laboratories Electronic Scientific Computer.*

- e. Jacketed Soft Point (JSP) (JFP)
 - f. Lead (L)
 - g. Lead Hollow Point (LHP)
 - h. Lead Round Nose (LRN)
 - i. Lubaloy
 - j. Metal Piercing (MP)
 - k. Round Nose (RN)
 - l. Semi-Wadcutter (SWC)
 - m. Wadcutter (WC)
4. Within construction type, the data are presented from smallest to largest mass in grains.



APPENDIX A

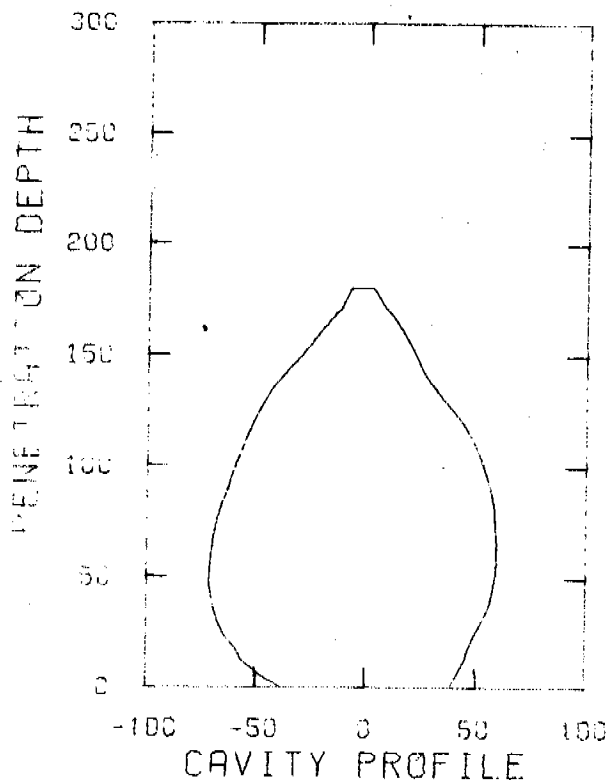


PROJECTILE MASS (GM) -- 6.253

PROJECTILE VELOCITY (MPS) -- 514.81

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
------------------------------	-----------------------

[illegible]

0	38
5	44
11	50
18	53
23	56
29	60
35	62
41	64
47	65
53	65
59	65
65	64
71	63
77	63
83	61
89	59
95	58
101	56
107	53
113	51
119	48
124	44
130	39
136	35
143	30
148	26
154	22
160	18
166	13
172	9
178	6
180	4

ROUND NUMBER -- 280

PROJECTILE MASS (GM) -- 6.253

PROJECTILE TYPE --GLASER,SSG, 9MM

PROJECTILE VELOCITY (MPS) --514.81

PROJECTILE DIAMETER (CM) -- 9.042

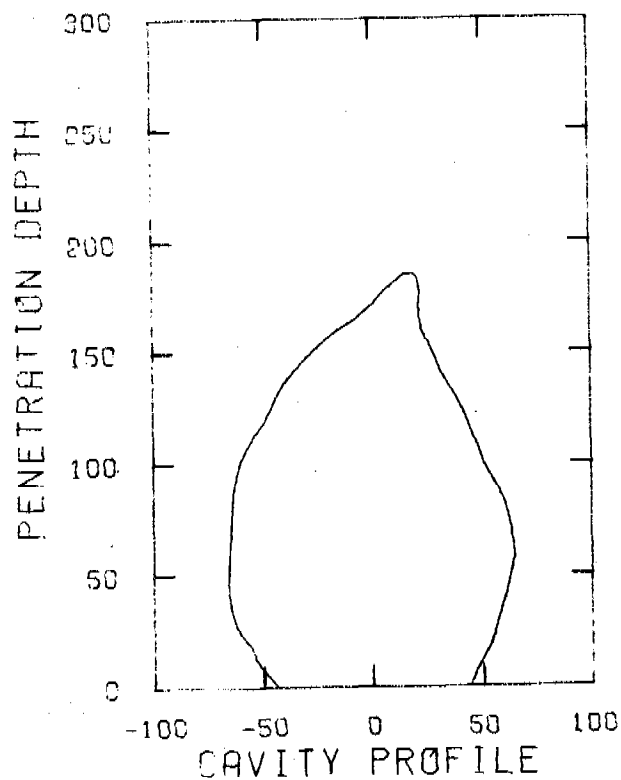
PROJECTILE DEFORMATION

PENETRATION PRESENTED CROSS-SECT
DISTANCE (MM) AREA (MM**2) AREA (MM**2)

I CAVITY MEASUREMENTS

I PENETRATION CAVITY
I DISTANCE (MM) RADIUS (MM)

I	0	43
I	6	47
I	11	51
I	17	54
I	23	58
I	29	60
I	35	61
I	41	63
I	47	64
I	53	64
I	59	65
I	65	64
I	71	63
I	76	62
I	82	61
I	88	60
I	94	57
I	100	55
I	106	52
I	112	49
I	118	46
I	124	43
I	130	40
I	136	37
I	142	33
I	148	28
I	154	24
I	159	19
I	165	14
I	171	10
I	177	8
I	183	3
I	185	1



ROUND NUMBER -- 281

PROJECTILE MASS (GM) -- 6.253

PROJECTILE TYPE --GLASER,SSG,.357MAG PROJECTILE VELOCITY (MPS) --404.77

PROJECTILE DIAMETER (CM) -- 9.068

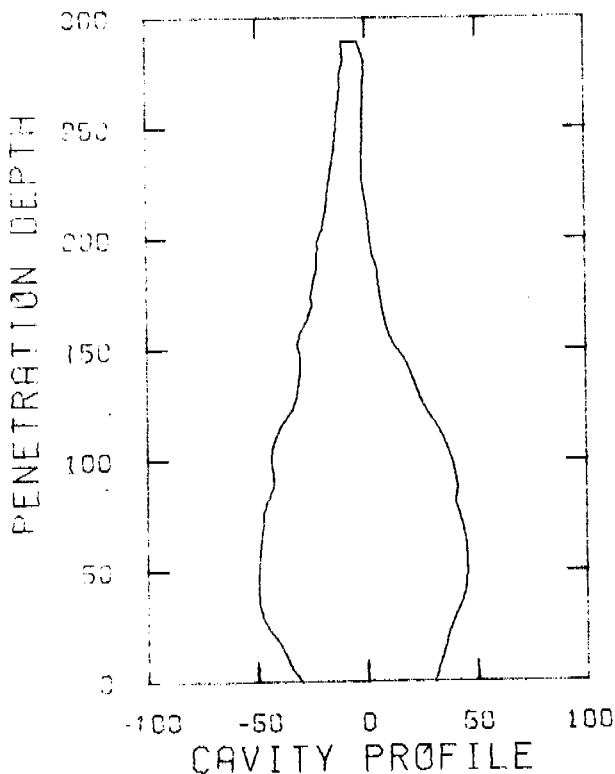
PROJECTILE DEFORMATION

CAVITY MEASUREMENTS

PENETRATION PRESENTED CROSS-SECT
DISTANCE (MM) AREA (MM**2) AREA (MM**2)

PENETRATION CAVITY
DISTANCE (MM) RADIUS(MM)

0	30
5	33
11	35
17	37
23	41
29	43
35	45
40	47
46	47
52	47
58	47
64	46
70	45
76	44
81	42
87	41
93	41
99	41
105	39
111	37
116	34
122	30
128	27
134	26
140	24
146	23
151	21
157	19
163	17
169	15
175	15
181	14
187	13
192	12
198	11
204	10
210	9
216	8
222	7
227	7
233	6
239	6
245	5
251	5
257	5
262	5
268	5
274	5



OUND NUMBER 281 CONTINUED

I	280	4
I	285	3
I	288	3

ROUND NUMBER -- 282

PROJECTILE MASS (GM) -- 6.253

PROJECTILE TYPE --GLASER,986,.357MAG PROJECTILE VELOCITY (MPS) --440.44

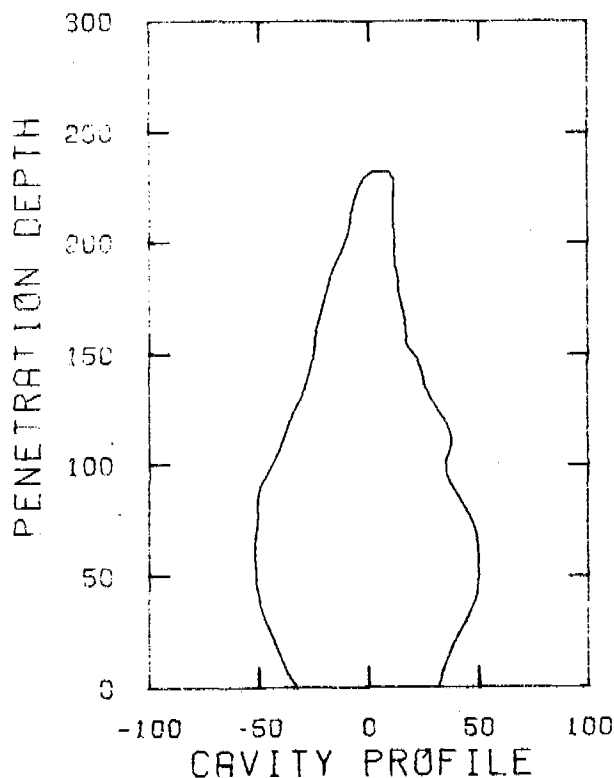
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION PRESENTED CROSS-SECT
DISTANCE (MM) AREA (MM**2) AREA (MM**2)

CAVITY MEASUREMENTS

PENETRATION CAVITY
DISTANCE (MM) RADIUS(MM)



0	32
6	35
11	37
18	39
23	42
29	45
35	48
41	49
47	50
53	50
59	51
65	50
71	49
77	48
83	46
89	44
95	40
101	38
106	38
112	37
118	35
124	32
130	29
136	26
142	25
148	23
154	20
160	20
166	19
171	17
177	16
183	15
189	13
195	11
201	10
207	9
213	9
219	8
225	7
229	6
231	4
232	3

ROUND NUMBER -- 277

PROJECTILE MASS (GM) -- 6.253

PROJECTILE TYPE --GLASER,380,,38SPEC PROJECTILE VELOCITY (MPS) --566.62

PROJECTILE DIAMETER (CM) -- 9.06R

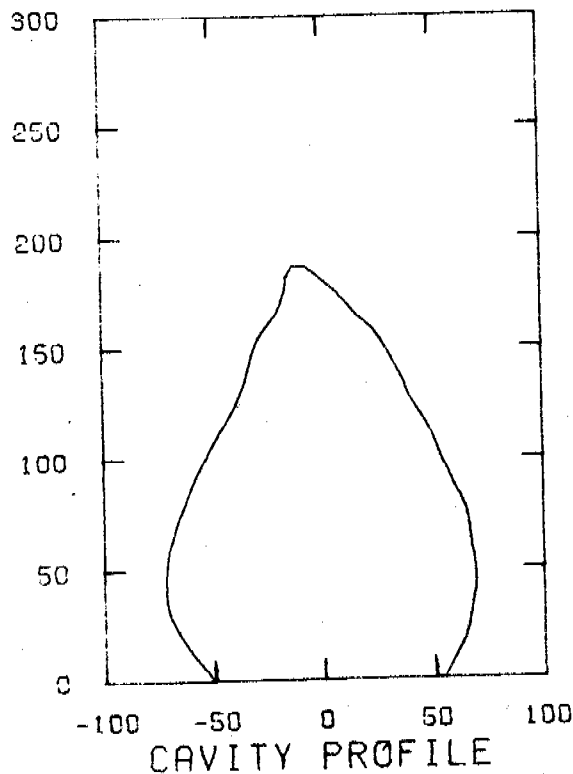
PROJECTILE DEFORMATION

CAVITY MEASUREMENTS

PENETRATION PRESENTED CROSS-SECT
DISTANCE (MM) AREA (MM**2) AREA (MM**2)

PENETRATION CAVITY
DISTANCE (MM) RADIUS(MM)

I	0	52
I	6	56
I	11	60
I	17	63
I	23	66
I	29	68
I	35	69
I	41	70
I	46	70
I	52	70
I	58	68
I	64	67
I	70	66
I	76	64
I	82	61
I	88	59
I	94	56
I	99	53
I	105	50
I	111	48
I	117	44
I	123	40
I	129	37
I	135	35
I	140	33
I	146	31
I	152	28
I	158	24
I	164	18
I	170	14
I	176	11
I	179	8
I	181	7
I	183	6
I	186	2



ROUND NUMBER -- 276

PROJECTILE MASS (GM) -- 6.253

PROJECTILE TYPE --GLASER,SSG,.38SPEC PROJECTILE VELOCITY (MPS) --576.07

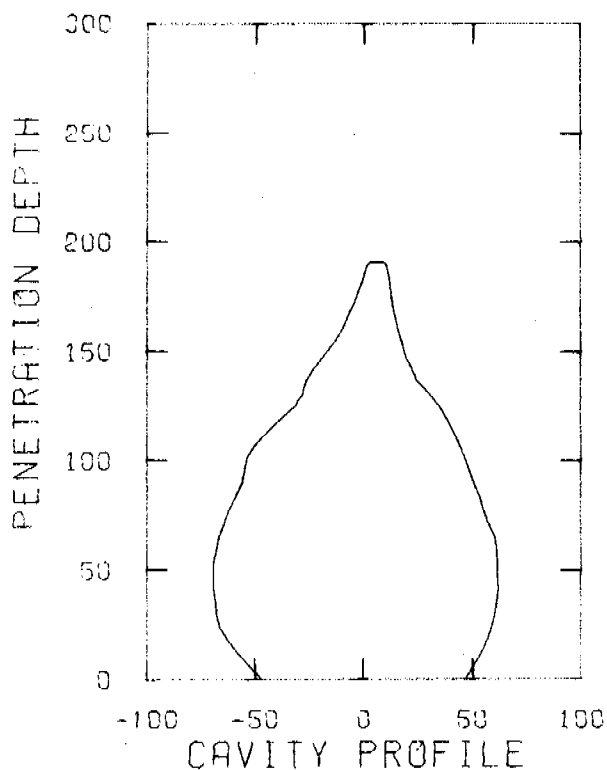
PROJECTILE DIAMETER (CM) -- 9.06A

PROJECTILE DEFORMATION

PENETRATION PRESENTED CROSS-SECT
DISTANCE (MM) AREA (MM**2) AREA (MM**2)

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	46
I	5	51
I	11	56
I	17	59
I	23	62
I	29	64
I	35	64
I	41	65
I	47	65
I	53	65
I	59	64
I	65	63
I	71	60
I	77	58
I	83	56
I	88	53
I	94	51
I	100	50
I	106	47
I	112	43
I	118	38
I	124	33
I	130	29
I	136	25
I	142	22
I	148	18
I	154	15
I	159	12
I	165	10
I	171	8
I	177	7
I	183	5
I	189	4
I	190	3



ROUND NUMBER -- 278

PROJECTILE MASS (GM) -- 6.253

PROJECTILE TYPE --GLASER,SSG,.357MAG PROJECTILE VELOCITY (MPS) --658.37

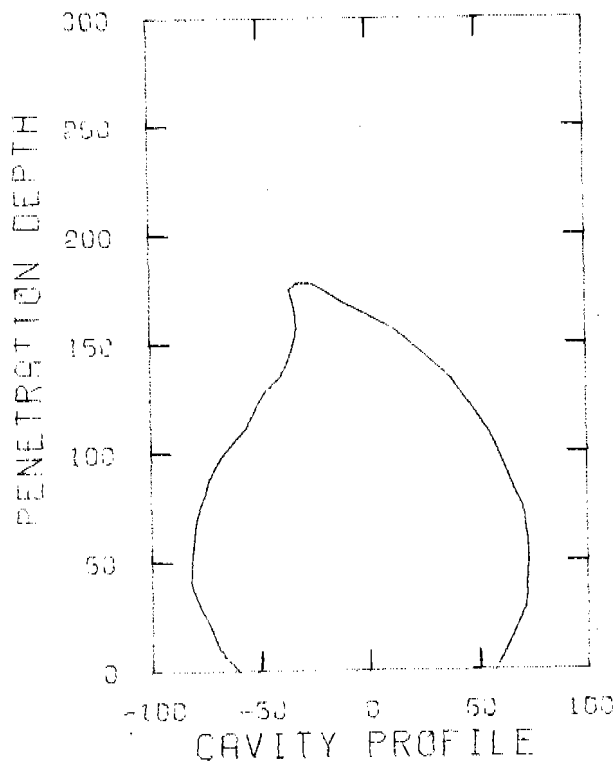
PROJECTILE DIAMETER (CM) -- 9.06R

PROJECTILE DEFORMATION

PENETRATION PRESENTED CROSS-SECT
DISTANCE (MM) AREA (MM**2) AREA (MM**2)

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	58
I	5	63
I	11	66
I	17	69
I	23	71
I	29	74
I	35	76
I	40	77
I	46	77
I	52	77
I	58	76
I	64	75
I	70	74
I	75	73
I	81	70
I	87	68
I	93	66
I	99	62
I	105	59
I	110	55
I	116	51
I	122	48
I	128	44
I	134	39
I	140	34
I	146	29
I	152	25
I	157	21
I	163	16
I	169	11
I	175	7
I	178	3



ROUND NUMBER -- 275

PROJECTILE MASS (GM) -- 6.253

PROJECTILE TYPE --GLASER,SSG,.357MAG PROJECTILE VELOCITY (MPS) --665.39

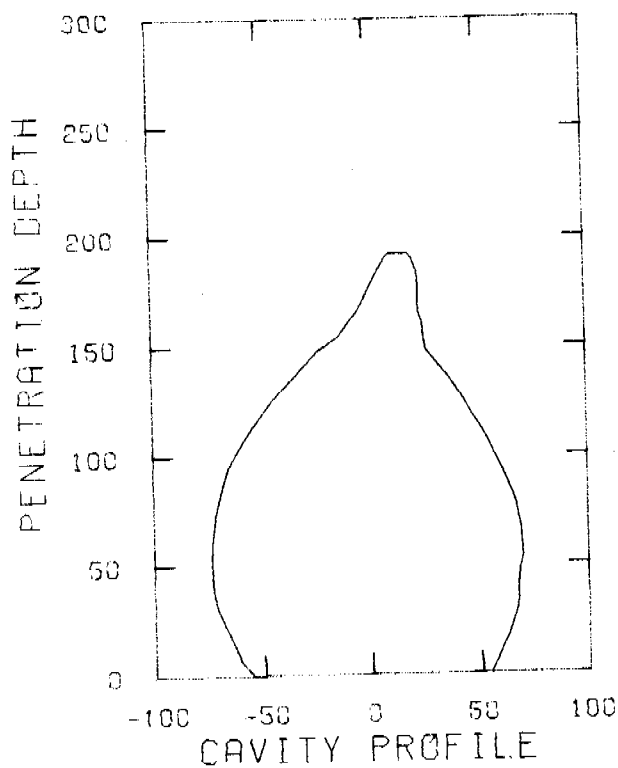
PROJECTILE DIAMETER (CM) -- 9.062

PROJECTILE DEFORMATION

PENETRATION PRESENTED CROSS-SECT
DISTANCE (MM) AREA (MM**2) AREA (MM**2)

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	54
I	5	58
I	11	61
I	17	64
I	23	66
I	29	68
I	35	70
I	41	70
I	47	70
I	53	71
I	59	71
I	65	71
I	71	69
I	77	68
I	82	66
I	89	64
I	94	62
I	100	59
I	106	56
I	112	52
I	118	48
I	124	44
I	130	39
I	136	35
I	142	29
I	148	24
I	154	19
I	160	17
I	166	13
I	171	12
I	177	10
I	183	8
I	189	5
I	192	4



ROUND NUMBER - 261

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -HI-PRECISION, JHP PROJECTILE VELOCITY (MPS) -264.12

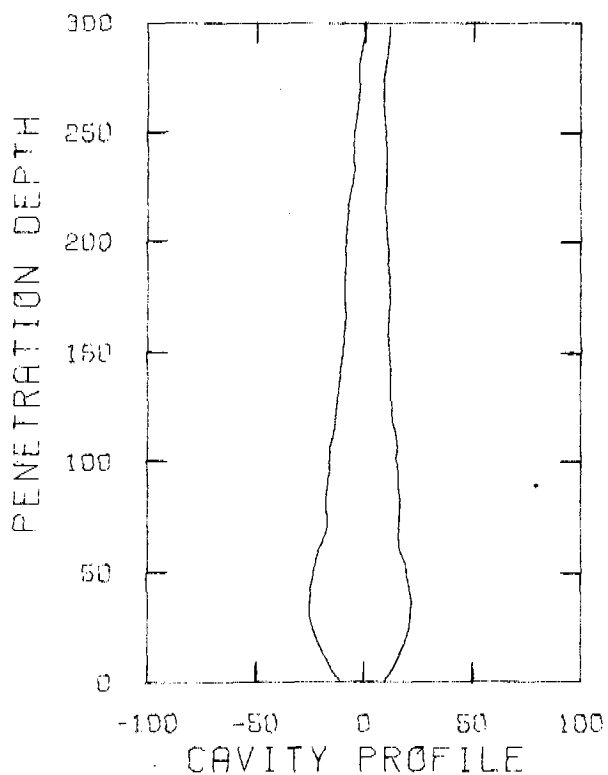
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
8	60	60
29	110	110
56	126	126
82	64	64
110	72	72

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	9
I 6	14
I 12	17
I 18	20
I 24	22
I 30	23
I 36	23
I 41	22
I 47	21
I 53	20
I 59	18
I 65	16
I 71	16
I 77	16
I 83	16
I 89	15
I 95	15
I 101	15
I 107	15
I 113	14
I 119	12
I 125	12
I 131	11
I 137	11
I 143	11
I 149	10
I 155	10
I 161	9
I 167	9
I 172	10
I 179	10
I 185	9
I 191	9
I 196	9
I 202	9
I 208	8
I 214	8
I 220	8
I 226	7
I 232	7
I 238	7
I 244	7
I 250	6
I 256	6
I 262	5
I 268	5
I 274	5
I 280	5



ROUND NUMBER 261 CONTINUED

I	286	6
I	292	5
I	298	5
I	304	5
I	310	4
I	316	4
I	318	4
I	0	0
I	0	0

ROUND NUMBER - 266

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -H1-PRECISION, JHP PROJECTILE VELOCITY (MPS) -311.98

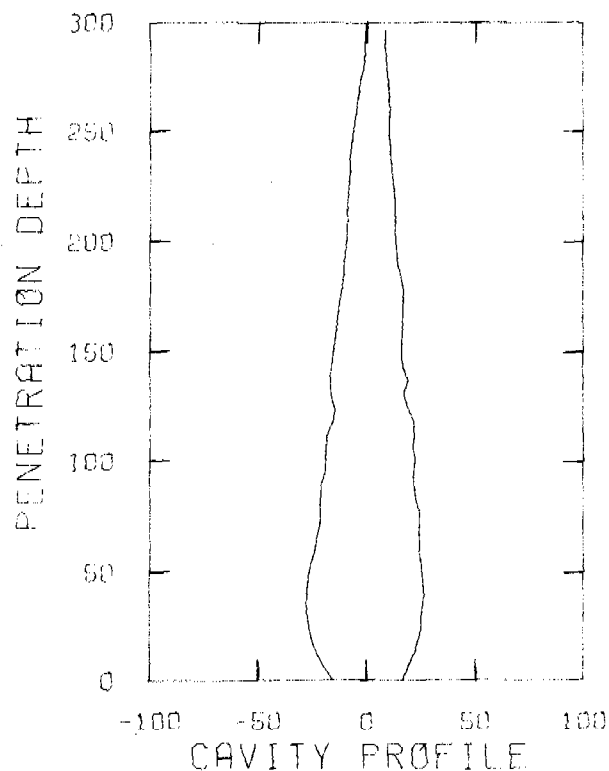
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
12	85	85
37	113	113
68	58	58
98	72	74
128	49	52

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	16
I	5	19
I	11	22
I	17	24
I	23	26
I	29	26
I	35	27
I	41	27
I	47	26
I	53	25
I	59	24
I	65	23
I	71	22
I	77	22
I	82	21
I	88	21
I	94	20
I	100	20
I	106	19
I	112	20
I	118	18
I	124	16
I	130	16
I	136	17
I	142	16
I	148	15
I	154	15
I	159	14
I	165	14
I	171	14
I	177	13
I	183	13
I	189	12
I	195	11
I	201	10
I	207	10
I	213	10
I	219	10
I	225	10
I	231	9
I	237	9
I	242	8
I	248	7
I	254	7
I	260	7
I	266	6
I	272	6
I	278	5



ROUND NUMBER 266 CONTINUED

I	284	4
I	290	4
I	296	4
I	302	3
I	308	3
I	313	3
I	320	3
I	0	0
I	0	0

ROUND NUMBER = 260

PROJECTILE MASS (GM) = 7.128

PROJECTILE TYPE -HI-PRECISION, JHP PROJECTILE VELOCITY (MPS) = 343.63

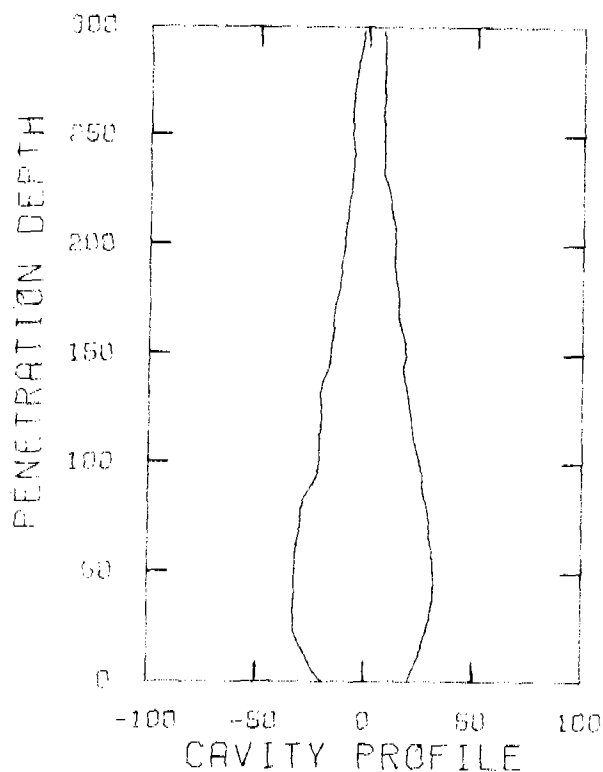
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
18	121	121
45	156	156
77	60	60
108	60	60
138	76	76

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	19
5	23
11	26
17	28
23	31
29	31
35	32
41	32
47	32
53	32
59	31
65	30
71	29
77	29
83	27
89	25
95	23
101	22
107	21
113	21
119	20
125	20
131	20
137	18
143	16
148	17
154	16
160	15
166	14
172	14
178	13
184	12
190	11
196	11
202	11
208	11
214	9
220	9
226	8
232	6
238	6
244	6
250	7
256	6
262	6
268	7
274	6
280	6



ROUND NUMBER 260 CONTINUED

1	285	5
1	291	5
1	298	4
1	303	4
1	309	4
1	316	3

ROUND NUMBER - 265

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -HI-PRECISION, JHP PROJECTILE VELOCITY (MPS) -356.07

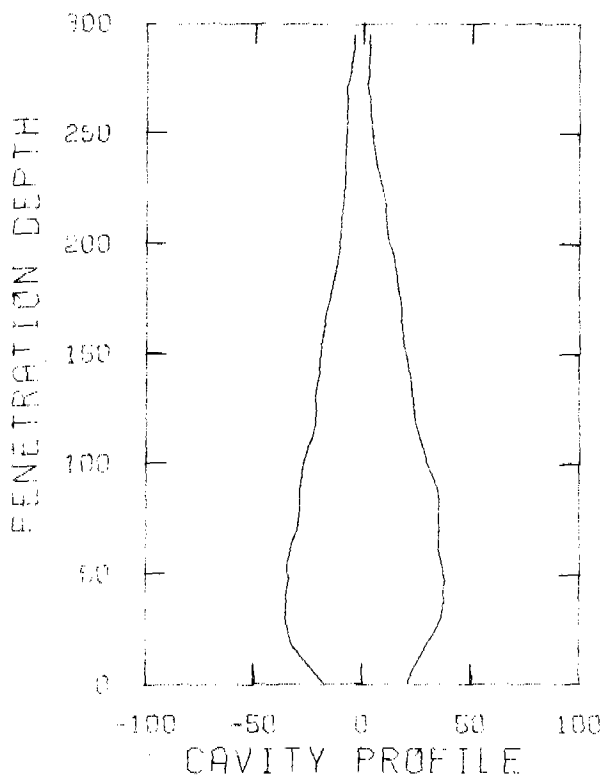
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	108	108
41	184	185
74	75	76
104	66	66
133	70	70

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	19
5	22
11	27
17	31
23	34
29	35
35	36
41	36
47	35
53	36
59	34
64	33
70	32
76	32
82	32
88	31
94	30
100	28
106	26
112	24
117	22
123	22
129	22
135	21
141	20
147	19
153	18
159	18
165	17
170	16
176	15
182	14
188	13
194	12
200	11
206	10
212	9
218	9
224	8
229	7
235	7
241	6
247	5
253	5
259	5
265	4
271	4
276	3



ROUND NUMBER 265 CONTINUED

I	282	3
I	288	3
I	294	3
I	300	3
I	304	2
I	0	0

ROUND NUMBER - 259

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -HI-PRECISION, JHP PROJECTILE VELOCITY (MPS) -389.77

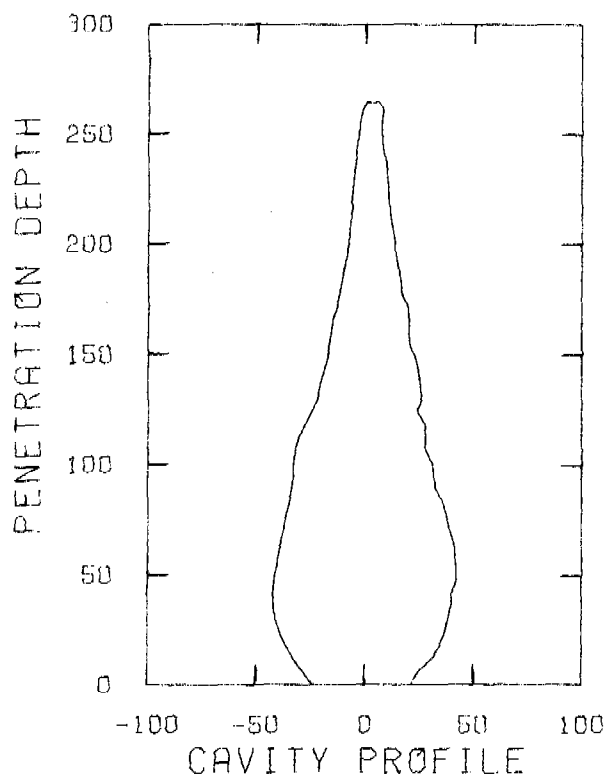
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
14	100	100
42	199	199
76	186	188
104	187	187
133	170	180

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	22
5	26
11	31
17	35
23	38
29	39
35	41
41	41
47	42
53	41
59	40
65	39
71	37
77	36
83	35
88	33
94	32
100	31
106	29
112	28
118	27
124	24
130	23
136	23
142	21
148	20
153	18
159	17
165	17
171	16
177	14
183	13
189	12
195	10
201	10
207	9
213	8
219	8
225	7
231	7
236	6
242	5
248	5
254	4
260	4
263	3
264	2
0	0



ROUND NUMBER = 264

PROJECTILE MASS (GM) = 7.128

PROJECTILE TYPE = HI-PRECISION, JHP PROJECTILE VELOCITY (MPS) = 409.13

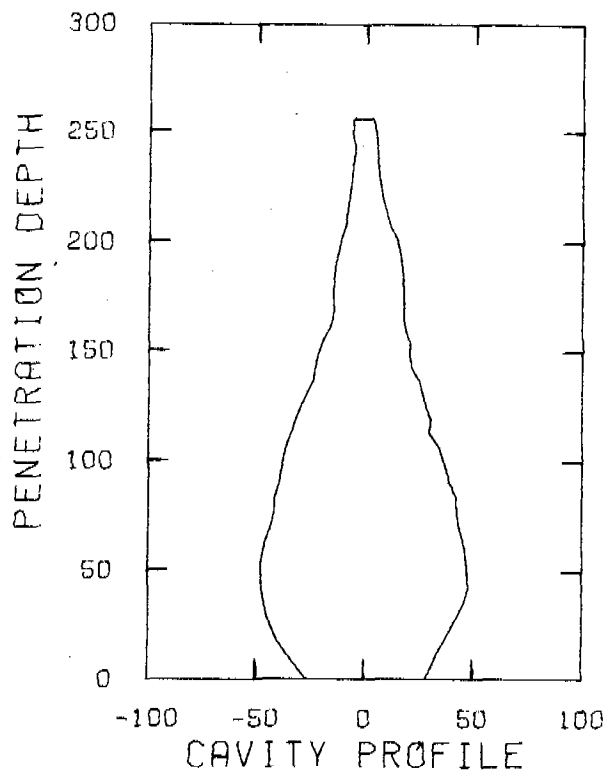
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
17	134	134
47	270	272
81	103	103
109	130	130
136	114	114

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	27
5	31
11	34
17	38
23	41
29	44
35	46
41	47
47	47
53	47
59	46
65	44
71	42
77	41
83	41
88	39
94	37
100	36
106	34
112	31
118	30
124	28
130	26
136	24
142	22
148	20
154	19
160	17
166	15
172	15
178	15
183	15
190	14
195	13
201	12
207	9
213	8
219	7
225	6
231	5
237	5
243	4
249	5
255	4
256	3



ROUND NUMBER = 268

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -HI-PRECISION, JSP PROJECTILE VELOCITY (MPS) -333.11

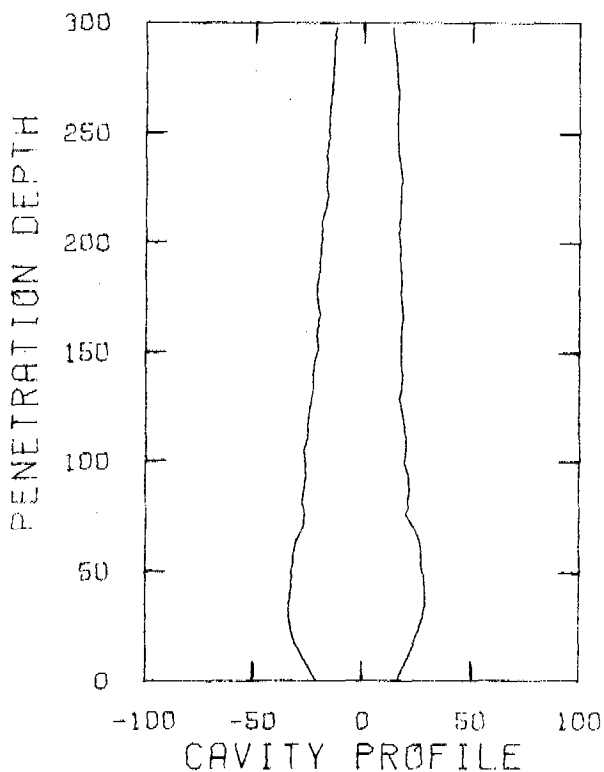
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
12	58	58
40	108	108
76	114	114
111	68	68
149	67	67

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	18
5	21
11	24
17	27
23	29
29	31
35	31
41	31
46	30
52	29
58	29
64	28
70	25
75	23
81	24
87	24
93	23
99	22
105	23
110	22
116	21
122	21
128	20
134	20
140	20
145	19
151	18
157	19
163	19
169	19
175	19
180	19
186	18
192	18
198	18
204	17
210	17
215	16
221	16
227	17
233	16
239	16
245	15
250	15
256	15
262	15
268	15
274	14



ROUND NUMBER 268 CONTINUED

I	279	14
I	285	13
I	291	13
I	297	12
I	303	12
I	309	12
I	315	12
I	0	0
I	0	0

ROUND NUMBER - 263

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -HI-PRECISION, JSP PROJECTILE VELOCITY (MPS) -342.86

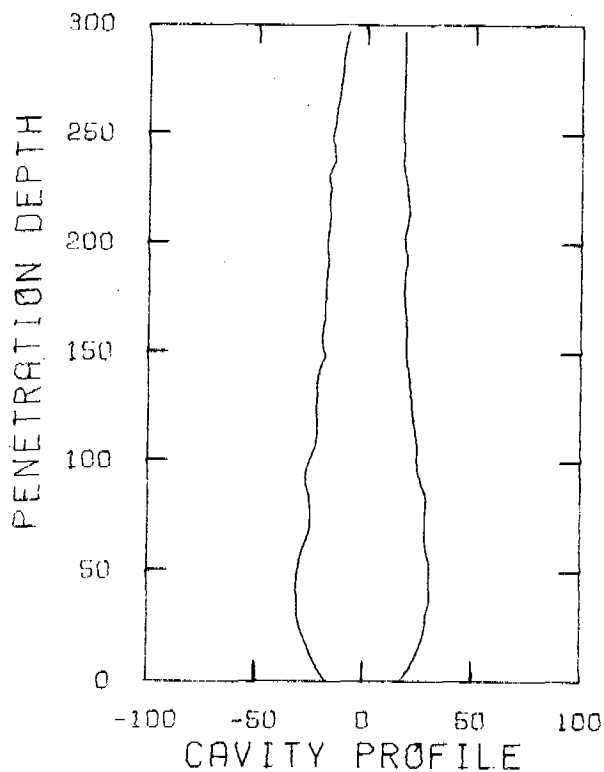
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
18	85	85
47	107	107
83	120	120
118	66	67
156	47	52

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	17
5	21
11	24
17	26
23	28
29	29
35	30
41	30
47	30
53	30
59	28
65	27
71	26
77	26
82	26
88	26
94	25
100	24
106	23
112	22
118	21
124	21
130	21
136	21
142	20
148	18
154	19
160	19
165	18
171	17
177	17
183	17
189	18
195	17
201	17
207	17
213	18
219	17
225	17
231	17
237	15
242	15
248	15
254	15
260	15
266	14
272	14
278	14



ROUND NUMBER 263 CONTINUED

I	284	14
I	290	13
I	296	12
I	302	12
I	308	11
I	313	11
I	318	11
I	n	0
I	0	0

ROUND NUMBER - 267

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -HI-PRECISION, JSP PROJECTILE VELOCITY (MPS) -379.10

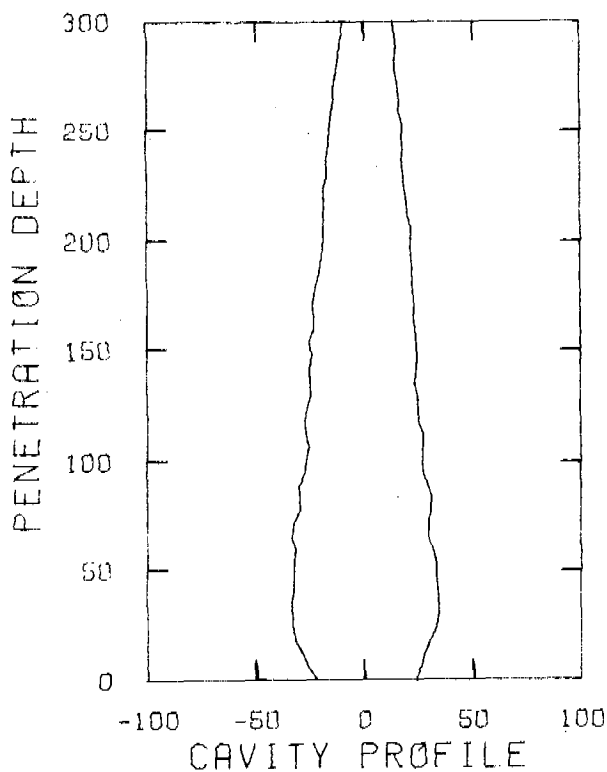
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
21	98	98
52	117	117
93	106	106
131	68	68
172	62	62

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	22
5	26
11	28
17	31
23	33
29	33
35	34
41	33
47	33
52	32
58	31
64	31
70	31
76	30
82	30
88	29
94	27
99	26
105	25
111	26
117	26
123	25
129	24
135	23
141	24
147	23
152	24
158	23
164	22
170	23
176	22
182	21
188	20
194	20
200	19
205	19
211	19
217	18
223	18
229	17
235	17
241	16
247	16
253	16
258	15
264	14
270	14
276	13



ROUND NUMBER 267 CONTINUED

1	282	12
1	287	12
1	293	12
1	299	11
1	305	11
1	311	11
1	317	11
1	323	10
1	0	0

ROUND NUMBER - 262

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -HI-PRECISION, JSP PROJECTILE VELOCITY (MPS) -387.29

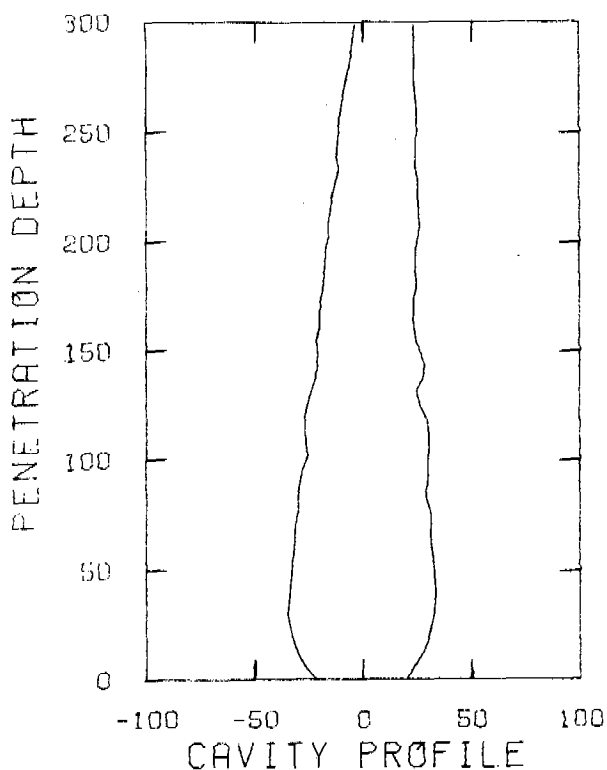
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
16	79	79
48	110	110
89	127	129
129	71	71
171	66	66

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	I CAVITY RADIUS(MM)
I 0	20
I 6	25
I 12	28
I 18	31
I 24	32
I 29	33
I 35	33
I 41	33
I 47	33
I 53	32
I 59	31
I 65	31
I 71	31
I 77	30
I 83	29
I 89	29
I 95	28
I 101	27
I 107	28
I 113	28
I 119	27
I 125	25
I 131	24
I 137	24
I 143	24
I 149	23
I 155	22
I 161	21
I 167	21
I 173	21
I 178	21
I 184	20
I 190	20
I 196	20
I 202	20
I 208	20
I 214	20
I 220	19
I 226	18
I 232	17
I 238	18
I 244	17
I 250	18
I 256	17
I 262	16
I 268	16
I 274	15
I 280	14



ROUND NUMBER 262 CONTINUED

I	286	14
I	292	13
I	298	13
I	304	12
I	310	11
I	316	11
I	321	11
I	0	0
I	0	0

ROUND NUMBER = 250

PROJECTILE MASS (GM)-15,552

PROJECTILE TYPE -HI-PRECISION, JHP PROJECTILE VELOCITY (MPS) -270.93

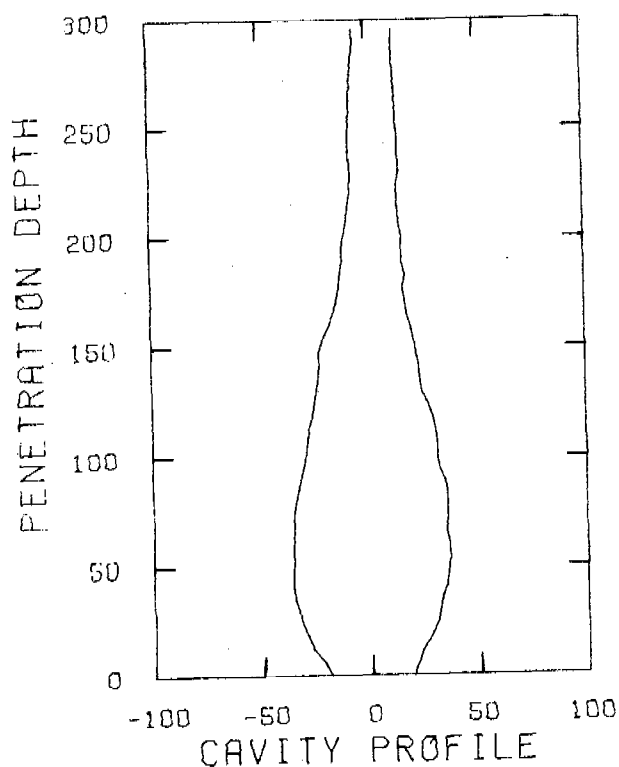
PROJECTILE DIAMETER (CM) = 1.092

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
11	104	104
34	153	153
61	151	153
87	138	141
114	134	134

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	18
6	21
11	25
17	28
23	31
29	32
35	34
41	35
47	36
53	36
58	36
65	35
70	35
76	35
82	34
88	33
94	31
100	30
106	29
112	29
117	27
123	25
129	24
135	23
141	22
147	22
153	20
159	18
165	16
171	15
177	14
183	14
188	13
194	13
200	13
206	11
212	11
218	10
224	10
230	10
236	11
241	10
247	10
253	10
259	10
265	10
271	9
277	9



ROUND NUMBER 250 CONTINUED

I	283	9
I	289	8
I	294	8
I	300	8
I	306	8
I	312	8
I	318	8
I	321	8
I	0	0

ROUND NUMBER - 249

PROJECTILE MASS (GM)-15.552

PROJECTILE TYPE -HI-PRECISION, JHP PROJECTILE VELOCITY (MPS) -303.28

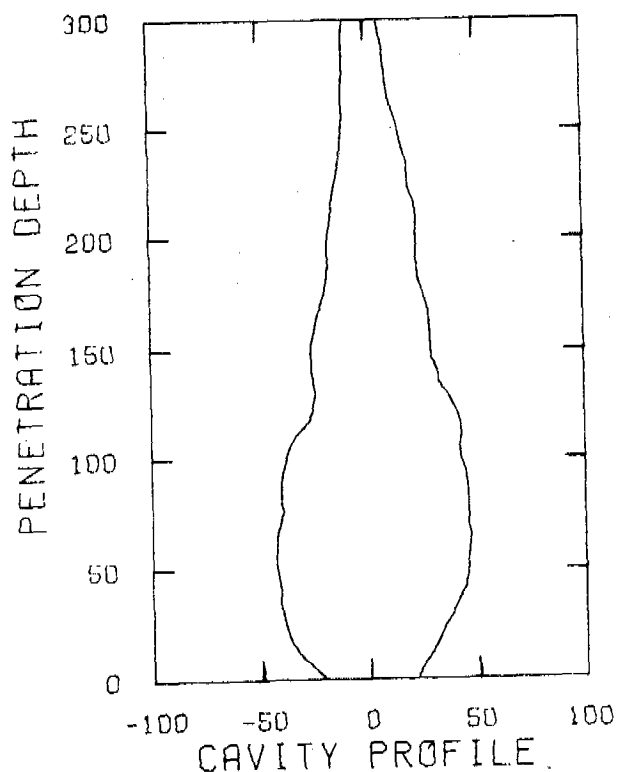
PROJECTILE DIAMETER (CM) - 1.092

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
12	102	102
37	161	169
67	138	139
95	173	173
122	154	161

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	21
5	25
11	30
17	34
23	36
29	39
35	41
41	42
47	43
52	44
58	44
64	44
70	43
76	42
82	43
87	42
93	41
99	40
105	38
111	37
117	34
123	32
129	30
134	28
140	28
146	27
152	27
158	26
164	25
169	24
175	22
181	21
187	20
193	20
199	20
205	19
211	19
216	18
222	16
228	15
234	15
240	14
246	13
252	12
257	11
263	10
269	9
275	9



ROUND NUMBER 240 CONTINUED

I	281	9
I	287	9
I	293	8
I	299	7
I	304	7
I	310	7
I	316	7
I	322	6
I	0	0

ROUND NUMBER = 247

PROJECTILE MASS (GM) = 15.552

PROJECTILE TYPE = HI-PRECISION, JHP PROJECTILE VELOCITY (MPS) = 347.55

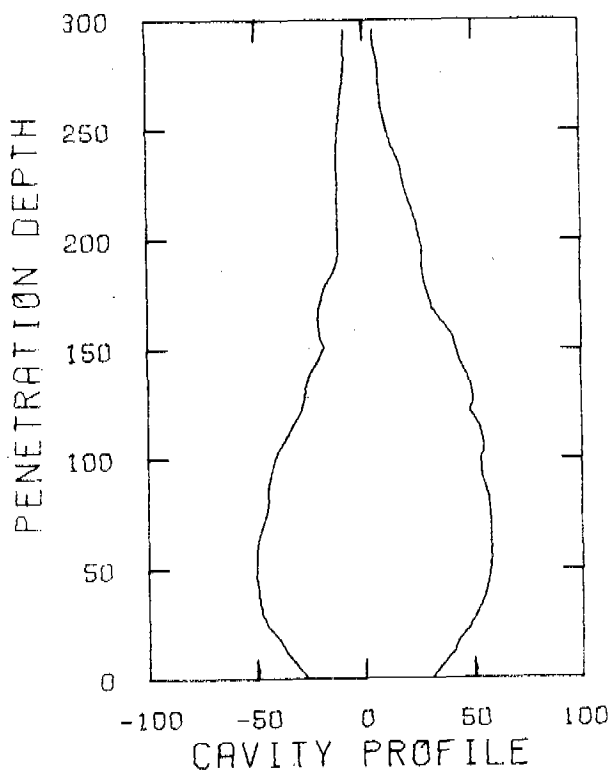
PROJECTILE DIAMETER (CM) = 1.092

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
19	149	150
44	246	246
76	228	228
105	249	250
134	241	248

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	28
5	33
11	38
17	41
23	46
29	49
34	51
40	52
46	53
52	54
57	54
63	53
69	52
75	51
81	50
86	49
92	48
98	47
104	47
110	44
115	42
121	38
127	38
133	37
139	35
145	32
150	30
156	30
162	28
167	26
173	24
179	22
185	20
191	19
196	19
202	18
208	17
214	16
220	15
225	14
231	14
237	13
243	12
248	11
254	10
260	9
266	8
272	8



ROUND NUMBER 247 CONTINUED

I	277	7
I	283	7
I	289	6
I	295	6
I	301	5
I	306	6
I	312	5
I	318	5
I	0	0

ROUND NUMBER = 248

PROJECTILE MASS (GM) = 15.552

PROJECTILE TYPE = HI-PRECISION, JHP PROJECTILE VELOCITY (MPS) = 354.83

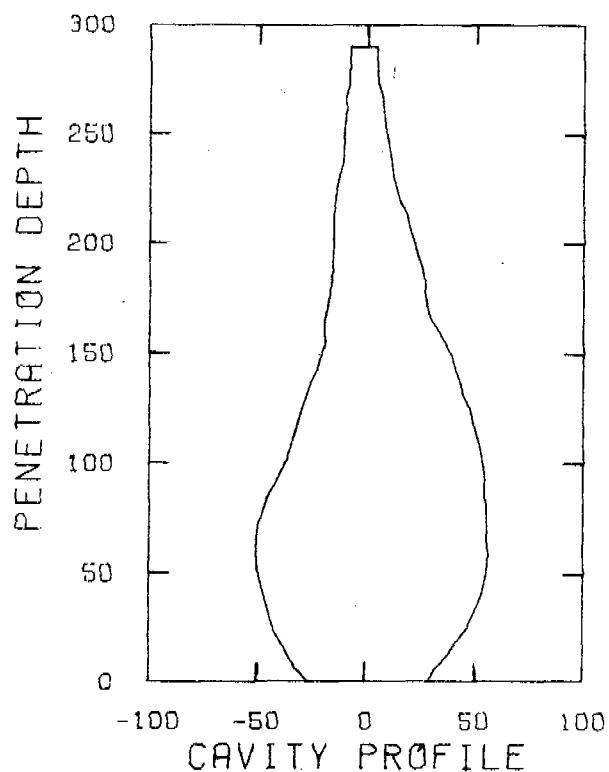
PROJECTILE DIAMETER (CM) = 1.092

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	127	127
39	262	262
72	253	253
101	260	261
131	253	253

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	27
I	5	31
I	11	36
I	17	39
I	23	44
I	29	46
I	35	48
I	41	50
I	47	52
I	53	53
I	59	53
I	65	53
I	71	53
I	77	51
I	83	50
I	89	48
I	94	46
I	100	45
I	107	43
I	112	41
I	118	39
I	124	38
I	130	35
I	136	34
I	142	31
I	148	30
I	154	27
I	160	26
I	166	24
I	172	22
I	178	21
I	184	21
I	190	20
I	195	19
I	201	18
I	207	17
I	213	16
I	219	14
I	225	13
I	231	11
I	237	10
I	243	10
I	249	9
I	255	8
I	261	8
I	267	8
I	273	6
I	279	6
I	285	5
I	290	5
I	0	0



ROUND NUMBER - 271

PROJECTILE MASS (GM)-11.016

PROJECTILE TYPE -HI-PREC,JHP(HEMI) PROJECTILE VELOCITY (MPS) -290.29

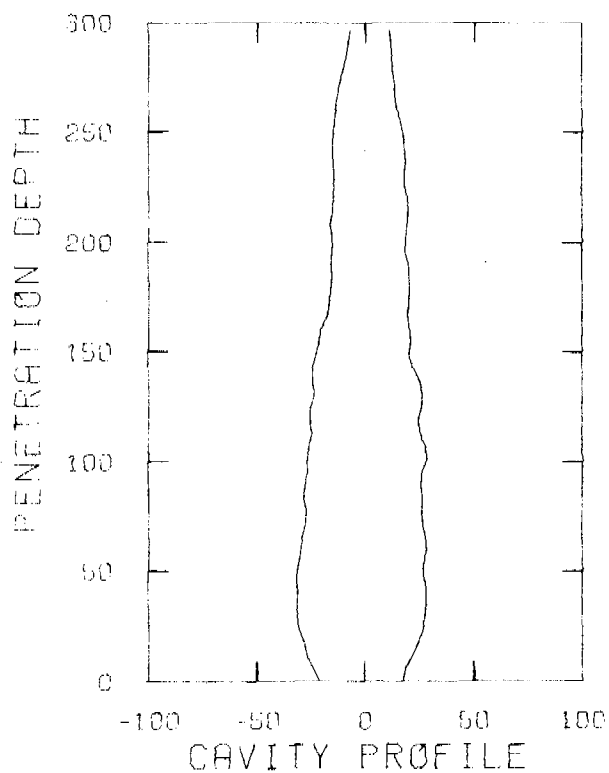
PROJECTILE DIAMETER (CM) - 1.143

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
11	99	99
35	102	103
65	111	111
94	104	104
124	107	109

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	19
5	21
11	24
17	26
23	28
29	29
35	30
41	29
47	29
53	29
59	29
65	28
70	26
76	26
82	27
88	26
94	26
100	27
106	26
112	24
118	24
124	25
130	24
136	24
142	23
148	21
153	20
159	20
165	18
171	17
177	17
183	17
189	17
195	16
201	16
207	17
213	17
219	16
225	16
231	15
236	16
242	16
248	15
254	14
260	13
266	12
272	12
278	11



ROUND NUMBER 271 CONTINUED

I	284	10
I	290	9
I	296	8
I	301	8
I	307	8
I	313	8

ROUND NUMBER - 270

PROJECTILE MASS (GM)-11.015

PROJECTILE TYPE -HI-PREC,JHP(HEMI) PROJECTILE VELOCITY (MPS) -342.47

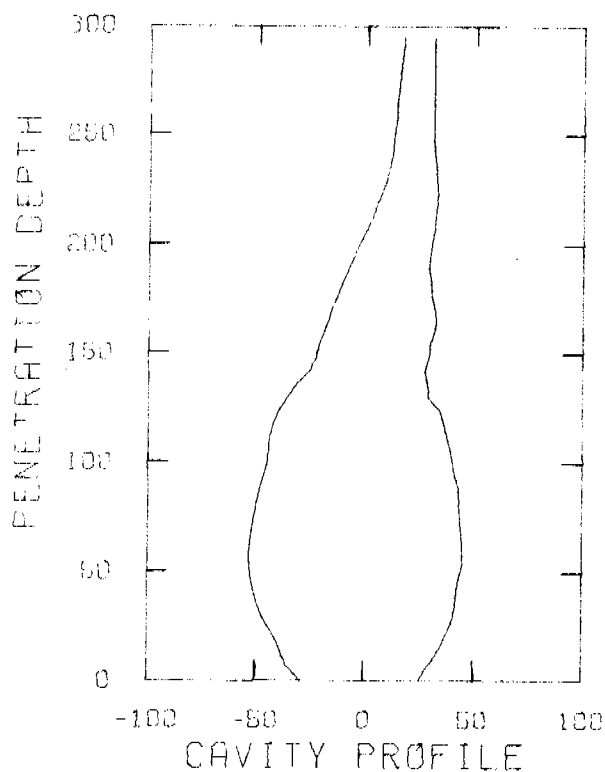
PROJECTILE DIAMETER (CM) - 1.143

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
14	109	109
40	126	127
71	139	139
98	145	145
125	139	144

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	27
I	5	31
I	11	35
I	17	38
I	23	41
I	29	44
I	35	45
I	41	46
I	47	48
I	52	49
I	58	49
I	64	48
I	70	47
I	76	47
I	82	46
I	88	45
I	94	43
I	100	42
I	105	41
I	111	40
I	117	39
I	123	36
I	129	32
I	135	30
I	141	26
I	147	26
I	153	25
I	158	25
I	164	24
I	170	23
I	176	21
I	182	20
I	188	18
I	194	17
I	200	16
I	206	15
I	211	14
I	217	13
I	223	12
I	229	11
I	235	10
I	241	9
I	247	9
I	253	8
I	259	8
I	264	8
I	270	8
I	276	7



ROUND NUMBER 270 CONTINUED

I	282	7
I	288	7
I	294	6
I	300	6
I	306	6
I	312	5

ROUND NUMBER = 269

PROJECTILE MASS (GM) = 11.016

PROJECTILE TYPE = HI-PREC, JHP (HEMI) PROJECTILE VELOCITY (MPS) = 390.27

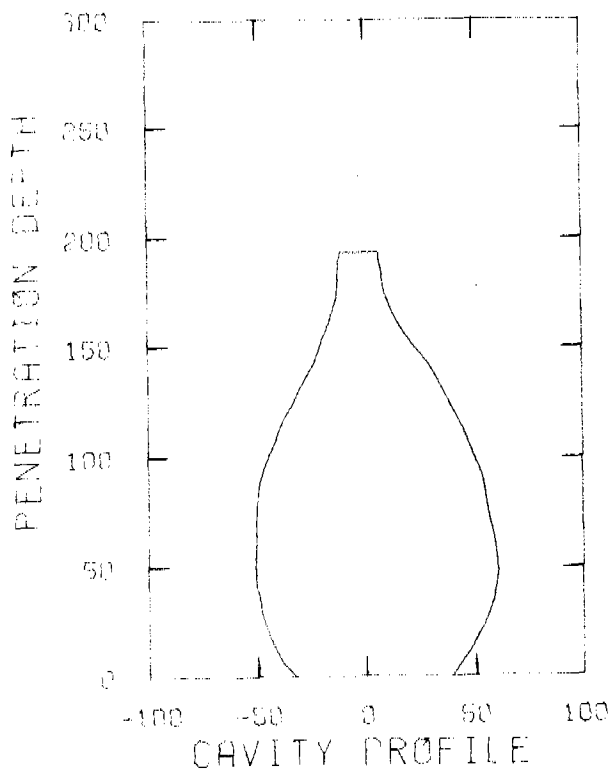
PROJECTILE DIAMETER (CM) = 1.143

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
17	138	138
43	326	327
73	344	344
97	381	384
117	389	389

I CAVITY MEASUREMENTS

I	I	I
I	PENETRATION	CAVITY
I	DISTANCE (MM)	RADIUS (MM)
I	0	36
I	6	41
I	11	45
I	17	48
I	23	50
I	29	52
I	35	54
I	41	55
I	47	55
I	53	55
I	59	55
I	65	54
I	71	53
I	77	53
I	83	52
I	89	51
I	95	49
I	100	46
I	106	44
I	112	42
I	118	39
I	124	36
I	130	32
I	136	29
I	142	25
I	148	22
I	154	19
I	160	15
I	166	13
I	172	11
I	178	10
I	184	9
I	189	9
I	193	8
I	0	0
I	0	0



ROUND NUMBER * 151

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -HORNADY, JFP

PROJECTILE VELOCITY (MPS) -240.95

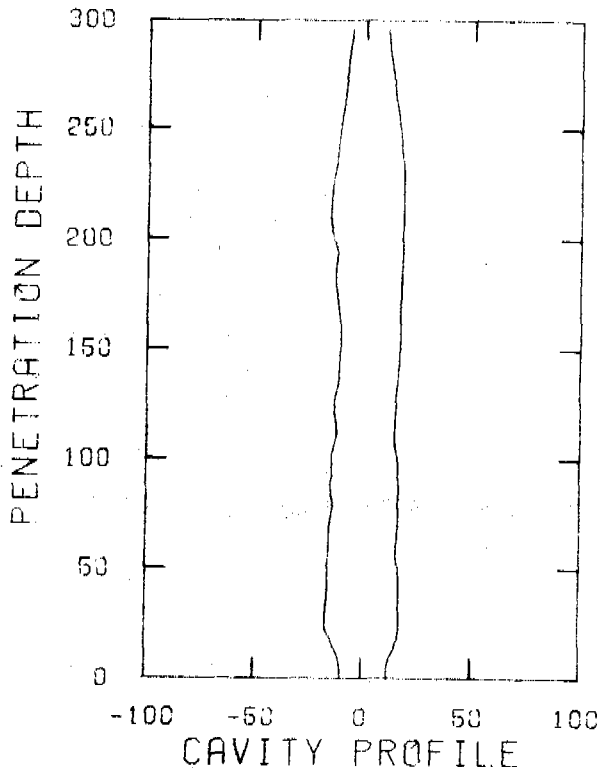
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
5	59	59
26	56	56
55	66	66
81	60	61
110	60	64

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	10
I	4	10
I	9	11
I	13	13
I	18	15
I	22	17
I	27	17
I	32	16
I	36	16
I	41	16
I	46	16
I	50	16
I	55	15
I	60	15
I	64	15
I	69	15
I	73	15
I	78	14
I	83	15
I	87	15
I	92	15
I	97	15
I	101	14
I	106	13
I	110	13
I	115	13
I	120	14
I	124	14
I	129	13
I	134	13
I	138	13
I	143	13
I	147	13
I	152	13
I	157	13
I	161	13
I	166	14
I	171	14
I	175	15
I	180	15
I	184	15
I	189	15
I	194	15
I	198	15
I	203	16
I	208	16
I	212	16
I	217	16



ROUND NUMBER - 151 CONTINUED

I	221	16
I	226	16
I	230	15
I	235	15
I	240	14
I	245	14
I	249	13
I	254	13
I	259	12
I	263	11
I	268	11
I	272	10
I	277	10
I	281	9
I	286	9
I	290	8
I	295	8
I	300	7
I	305	7
I	309	7
I	314	7
I	318	6
I	0	0
I	0	0

ROUND NUMBER - 150

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -HORNADY, JFP

PROJECTILE VELOCITY (MPS) -301.48

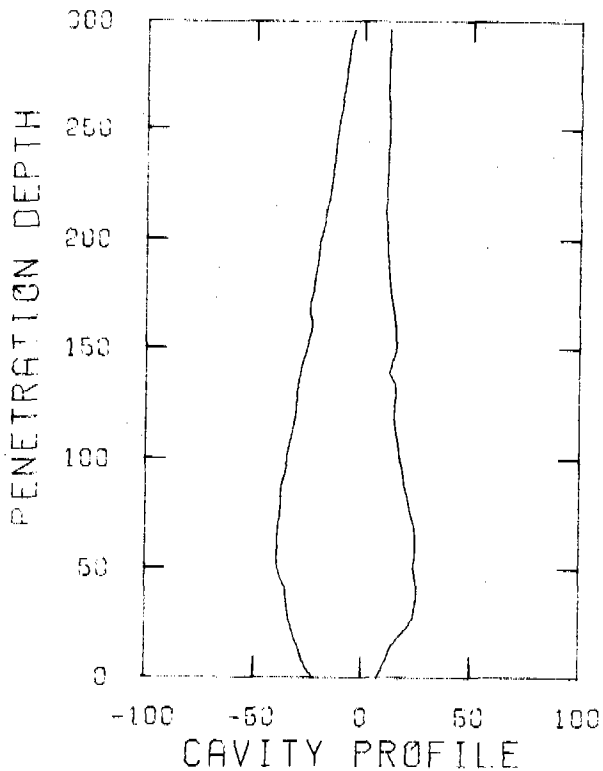
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
10	54	54
35	72	72
67	77	77
96	68	66
126	76	80

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	14
I 4	17
I 9	19
I 13	21
I 18	24
I 22	26
I 27	28
I 32	29
I 36	30
I 41	30
I 46	31
I 50	31
I 55	32
I 60	31
I 64	31
I 69	31
I 73	30
I 78	29
I 83	29
I 87	28
I 92	27
I 97	26
I 101	25
I 106	24
I 111	23
I 115	23
I 120	22
I 124	22
I 129	22
I 134	22
I 138	20
I 143	20
I 147	20
I 152	20
I 157	19
I 161	19
I 166	19
I 171	18
I 175	17
I 180	17
I 185	16
I 189	16
I 194	15
I 198	15
I 203	14
I 208	13
I 212	13
I 217	13



ROUND NUMBER 150 CONTINUED

I	221	12
I	226	12
I	231	12
I	235	12
I	240	12
I	245	12
I	249	11
I	254	11
I	259	10
I	263	10
I	268	9
I	272	9
I	277	9
I	282	9
I	286	9
I	291	8
I	296	8
I	300	7
I	305	7
I	310	7
I	314	6

ROUND NUMBER - 149

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -HORNADY, JFP

PROJECTILE VELOCITY (MPS) -319.83

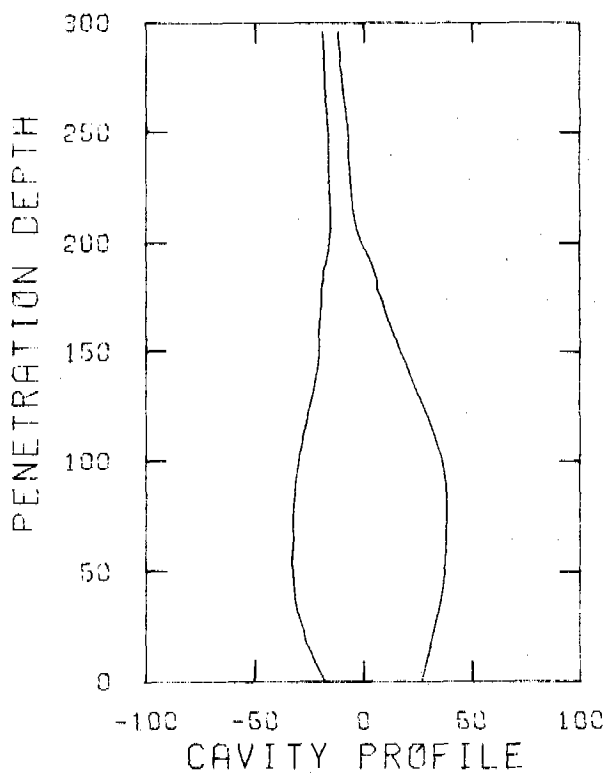
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
49	176	179
77	191	192
106	23	108
162	30	141

I CAVITY MEASUREMENTS

I	I	I
I	PENETRATION	CAVITY
I	DISTANCE (MM)	RADIUS(MM)
I	0	22
I	4	24
I	9	25
I	13	27
I	18	29
I	23	30
I	27	31
I	32	32
I	37	33
I	42	34
I	46	34
I	51	35
I	56	35
I	60	35
I	65	35
I	70	35
I	74	35
I	79	35
I	84	35
I	89	34
I	93	34
I	98	33
I	103	32
I	107	31
I	112	30
I	117	28
I	121	27
I	126	25
I	131	24
I	135	22
I	140	21
I	145	19
I	149	18
I	154	17
I	159	16
I	163	15
I	168	14
I	173	13
I	178	12
I	182	12
I	187	11
I	192	9
I	196	8
I	201	7
I	206	5
I	210	5
I	215	5
I	220	4



ROUND NUMBER 149 CONTINUED

I	224	4
I	229	4
I	234	4
I	239	4
I	243	4
I	248	4
I	252	4
I	257	4
I	262	4
I	267	4
I	271	4
I	276	3
I	281	3
I	285	3
I	290	3
I	295	3
I	300	3
I	304	3
I	309	2
I	313	2
I	317	2

ROUND NUMBER - 234

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -HORNADY, JFP

PROJECTILE VELOCITY (MPS) -349.14

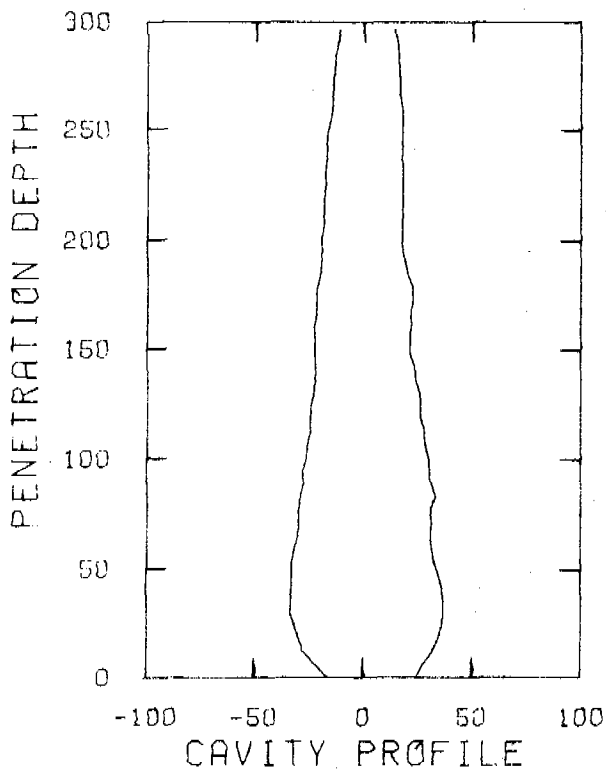
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
17	90	90
47	108	108
83	105	105
120	64	64
158	67	67

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	20
5	24
11	29
17	32
23	34
29	35
35	35
41	34
47	34
53	32
59	31
65	30
71	30
77	30
82	31
88	29
94	29
100	27
106	26
112	26
118	25
124	25
130	24
136	23
142	22
148	21
154	21
159	22
166	21
171	22
177	22
183	19
189	19
195	18
201	18
207	17
213	17
219	17
225	17
231	17
237	16
243	17
248	17
254	16
260	15
266	15
272	15
278	14



ROUND NUMBER 234 CONTINUED

I	284	14
I	290	13
I	296	12
I	302	11
I	308	11
I	314	10
I	320	10
I	0	0
I	0	0

ROUND NUMBER - 152

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -HORNADY, JFP

PROJECTILE VELOCITY (MPS) -391.77

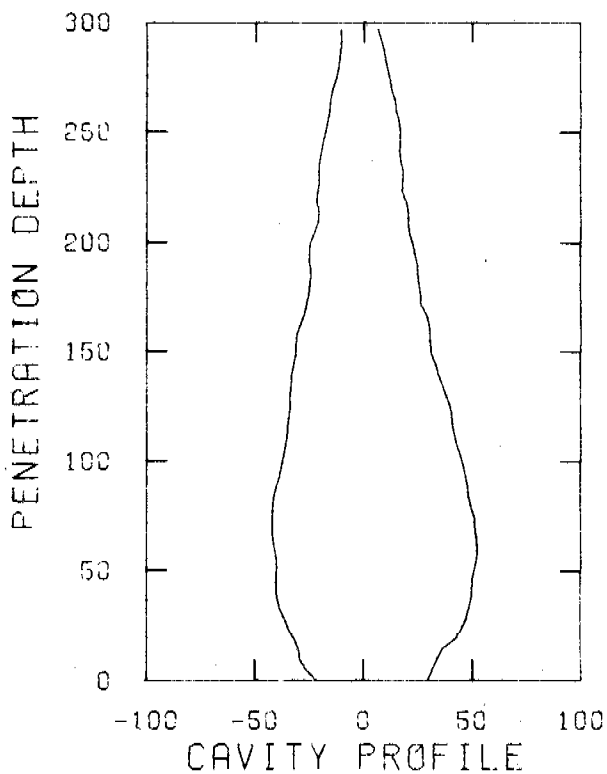
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
14	76	76
46	90	90
84	95	96
120	101	101
154	102	102

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	25
I	4	29
I	9	31
I	14	33
I	18	37
I	23	39
I	28	41
I	32	43
I	37	44
I	41	45
I	46	45
I	51	45
I	55	46
I	60	46
I	65	47
I	69	46
I	74	46
I	79	45
I	83	44
I	88	44
I	93	42
I	97	41
I	102	40
I	106	39
I	111	38
I	116	37
I	120	37
I	125	36
I	130	35
I	134	34
I	139	33
I	144	32
I	148	31
I	153	30
I	157	30
I	162	29
I	166	28
I	171	26
I	176	25
I	181	25
I	185	24
I	190	24
I	195	24
I	199	23
I	204	21
I	208	20
I	213	20
I	218	20



ROUND NUMBER 152 CONTINUED

I	222	19
I	227	19
I	232	19
I	236	18
I	241	17
I	246	17
I	250	17
I	255	16
I	259	15
I	264	14
I	269	13
I	273	12
I	278	11
I	282	10
I	287	9
I	292	9
I	297	8
I	301	8
I	306	7
I	310	7
I	0	0

ROUND NUMBER - 159

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE - HORNADY, JHP

PROJECTILE VELOCITY (MPS) - 143.71

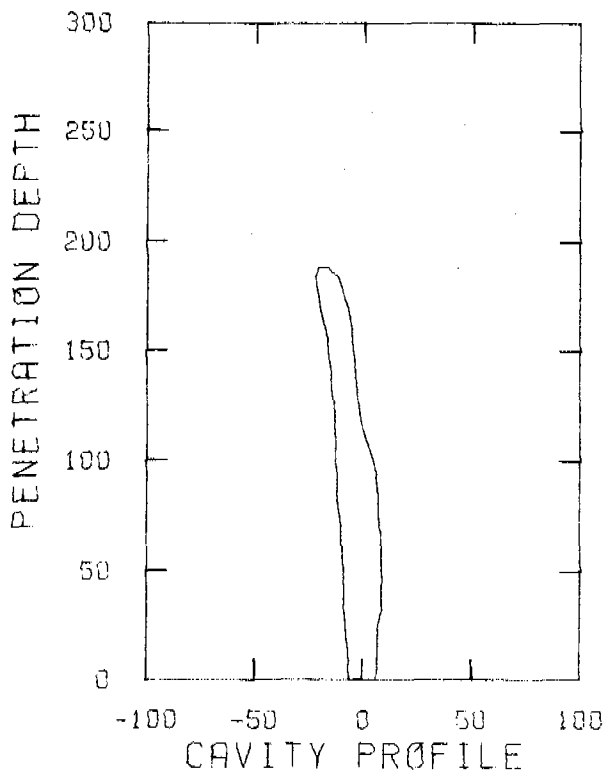
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-1	57	57
15	61	61
30	71	71
46	53	53
64	63	64

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	5
I 4	6
I 9	6
I 13	6
I 18	7
I 23	7
I 28	8
I 32	8
I 37	8
I 42	9
I 47	9
I 51	9
I 56	9
I 61	9
I 65	9
I 70	8
I 75	8
I 80	9
I 84	9
I 89	9
I 94	9
I 98	8
I 103	8
I 108	7
I 113	6
I 117	6
I 122	5
I 127	5
I 131	5
I 136	5
I 141	5
I 146	5
I 150	5
I 155	5
I 159	6
I 164	6
I 169	6
I 174	5
I 178	5
I 183	5
I 188	1
I 188	1



ROUND NUMBER - 160

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -224.45

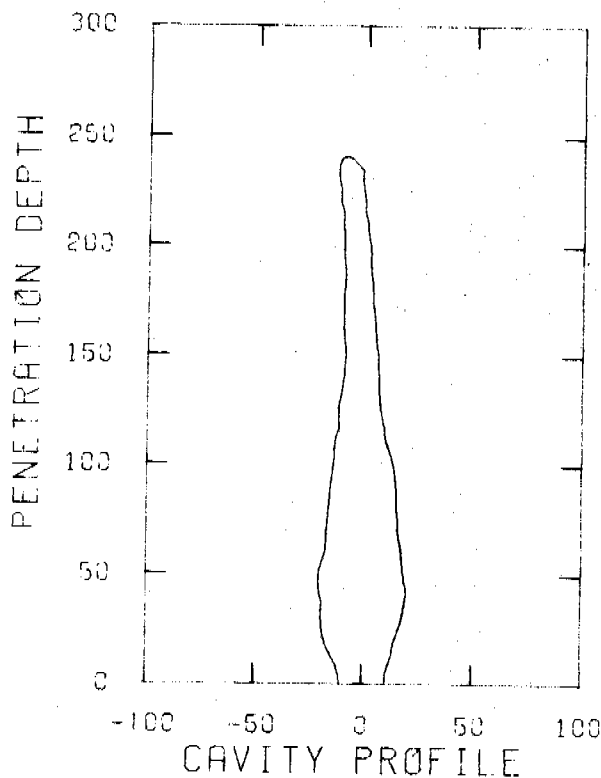
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
5	58	58
24	60	60
48	65	65
71	62	63
93	58	60

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	10
I	4	10
I	9	12
I	13	14
I	18	15
I	23	17
I	28	18
I	32	19
I	37	19
I	42	20
I	46	19
I	51	19
I	56	18
I	60	17
I	65	16
I	70	16
I	75	15
I	79	15
I	84	15
I	89	15
I	93	14
I	98	13
I	103	13
I	107	12
I	112	11
I	117	10
I	122	9
I	126	9
I	131	8
I	136	8
I	140	7
I	145	7
I	150	7
I	154	7
I	159	7
I	164	7
I	168	7
I	173	6
I	178	6
I	182	6
I	187	5
I	192	5
I	196	6
I	201	5
I	206	5
I	211	5
I	215	4
I	220	5



ROUND NUMBER 160 CONTINUED

I	225	5
I	229	5
I	234	5
I	239	2
I	240	1
I	0	0

ROUND NUMBER - 225

PROJECTILE MASS (GM) - 7.129

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -275.84

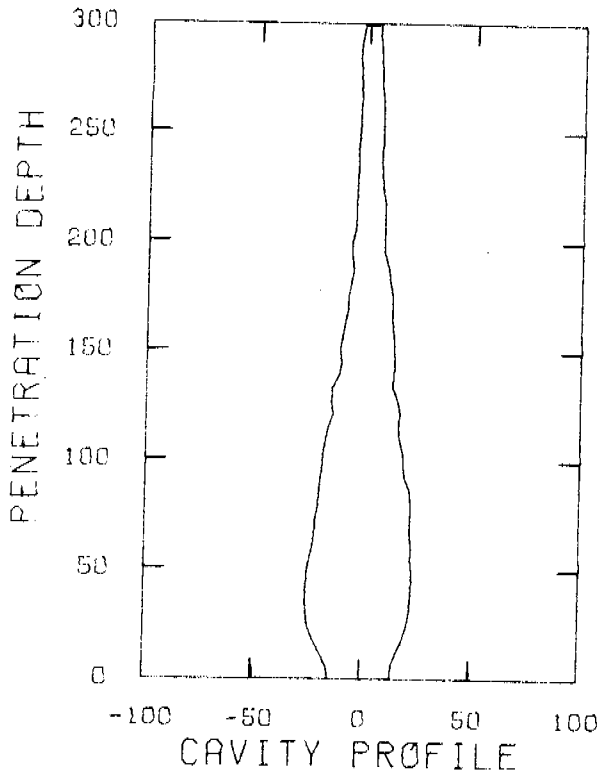
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
7	60	60
30	106	106
58	122	122
86	116	116
113	114	114

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	14
6	15
12	17
18	20
24	23
30	24
36	24
42	24
48	24
54	23
60	22
66	22
72	21
78	21
84	21
91	19
96	18
103	18
109	16
115	16
121	15
127	15
133	13
139	12
145	12
151	12
157	11
163	10
169	9
175	9
181	8
187	7
194	7
200	7
206	6
212	6
218	6
224	5
230	5
236	5
242	5
248	5
254	5
260	5
266	4
272	4
279	4
284	4



ROUND NUMBER 225 CONTINUED

I	291	4
I	297	3
I	299	3

ROUND NUMBER - 161

PROJECTILE MASS (GM)- 7.128

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -293.08

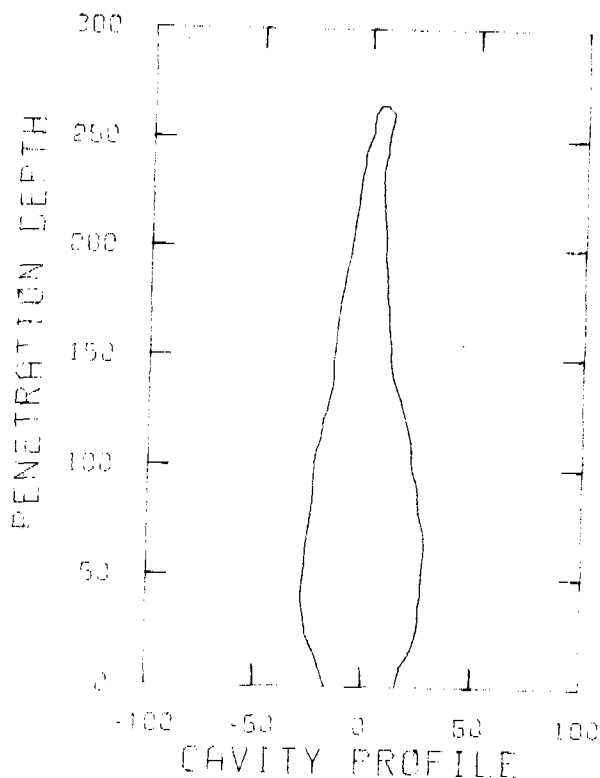
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
8	56	56
32	91	91
61	102	102
87	105	105
112	93	94

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	16
I	4	17
I	9	18
I	13	21
I	18	23
I	23	25
I	27	26
I	32	26
I	37	26
I	41	27
I	46	27
I	51	27
I	55	27
I	60	27
I	65	27
I	69	26
I	74	25
I	79	24
I	84	24
I	88	23
I	93	23
I	98	22
I	102	22
I	107	21
I	112	20
I	116	19
I	121	18
I	126	17
I	130	16
I	135	14
I	140	13
I	144	13
I	149	12
I	154	12
I	158	12
I	163	11
I	168	11
I	172	10
I	177	10
I	182	9
I	186	9
I	191	8
I	196	7
I	201	7
I	205	7
I	210	6
I	215	6
I	219	5



ROUND NUMBER 161 CONTINUED

I	224	5
I	229	5
I	233	4
I	238	4
I	242	5
I	247	4
I	252	3
I	257	4
I	261	4
I	265	1
I	0	0
I	0	0

ROUND NUMBER = 224

PROJECTILE MASS (GM) = 7.128

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) =299.12

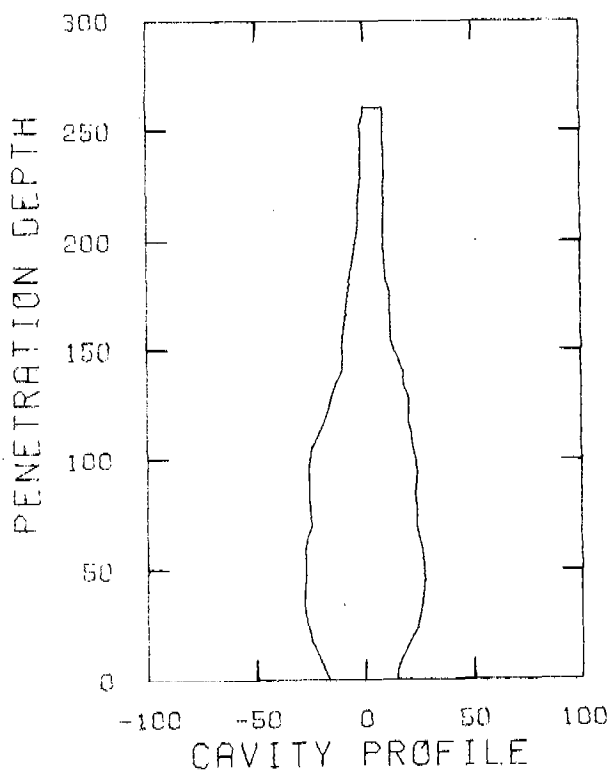
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
11	83	83
35	107	107
63	110	110
90	112	112
115	100	100

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	15
5	17
11	20
17	22
23	25
29	26
35	27
41	27
47	27
52	27
58	27
64	25
70	24
76	24
82	24
88	24
93	24
99	24
105	23
111	21
117	19
123	18
129	17
135	15
140	13
146	12
152	11
158	10
164	10
170	9
176	9
182	8
187	7
193	6
199	6
205	5
211	5
217	5
223	5
228	5
234	5
240	5
246	4
252	5
258	4
260	4
0	0
0	0



ROUND NUMBER - 223

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE - HORNADY, JHP

PROJECTILE VELOCITY (MPS) - 329.16

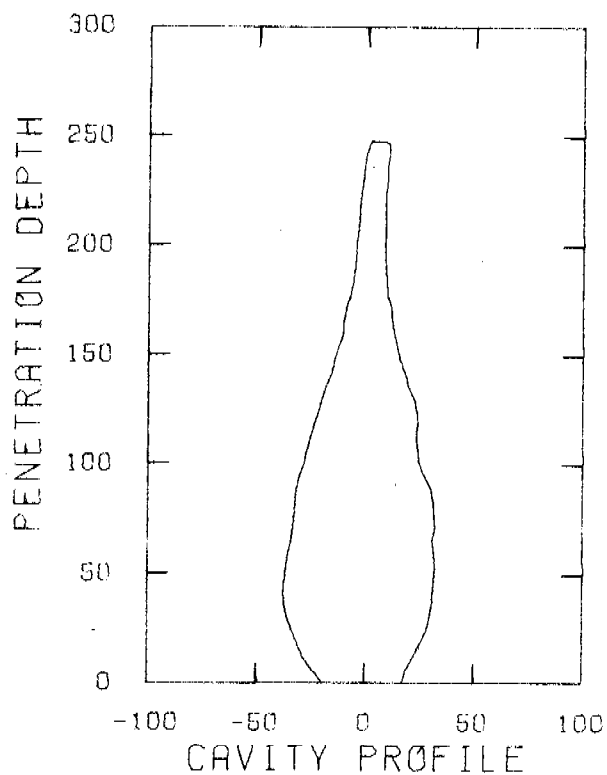
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
10	85	85
36	131	131
66	137	137
94	129	129
119	130	130

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	18
5	21
11	25
17	26
23	31
29	32
35	34
41	34
47	34
53	34
58	33
64	32
70	32
76	32
82	31
88	30
94	28
100	26
105	25
111	24
117	23
123	22
129	21
135	18
141	16
147	14
153	13
159	11
164	10
170	10
176	8
182	7
188	6
194	6
200	6
206	6
211	5
217	5
223	5
229	5
235	5
241	5
245	4
247	2
0	0



ROUND NUMBER - 162

PROJECTILE MASS (GM)- 7.128

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -336.42

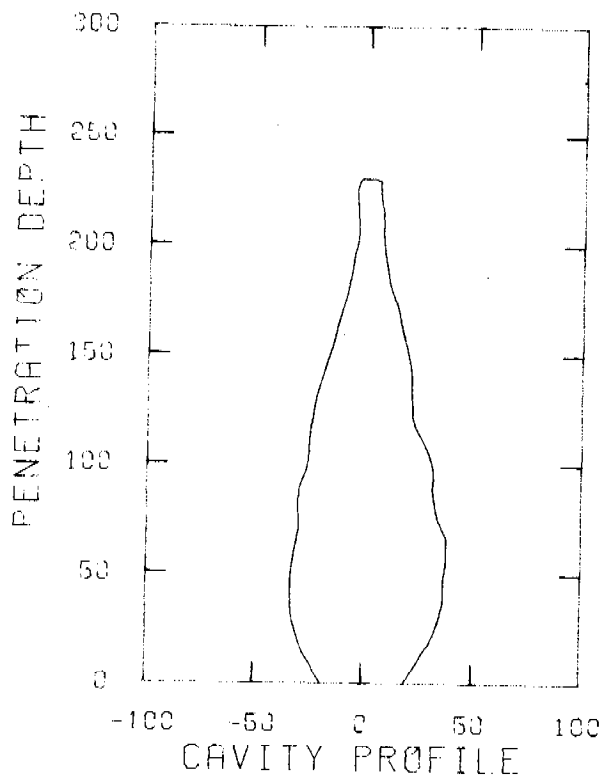
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	96	96
37	155	156
68	159	159
95	144	144
120	144	144

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	19
I	4	22
I	9	24
I	13	27
I	18	30
I	23	32
I	28	33
I	32	34
I	37	35
I	42	35
I	46	35
I	51	35
I	56	35
I	60	35
I	65	34
I	70	32
I	74	31
I	79	31
I	84	31
I	88	30
I	93	30
I	98	29
I	102	27
I	107	26
I	112	25
I	117	24
I	121	22
I	126	22
I	130	21
I	135	21
I	140	20
I	145	19
I	149	18
I	154	16
I	159	15
I	163	14
I	168	13
I	173	12
I	177	10
I	182	9
I	187	8
I	191	7
I	196	6
I	201	5
I	205	5
I	210	5
I	215	5
I	219	5



ROUND NUMBER 162 CONTINUED

I	224	5
I	229	4
I	230	2

ROUND NUMBER - 158

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -405.32

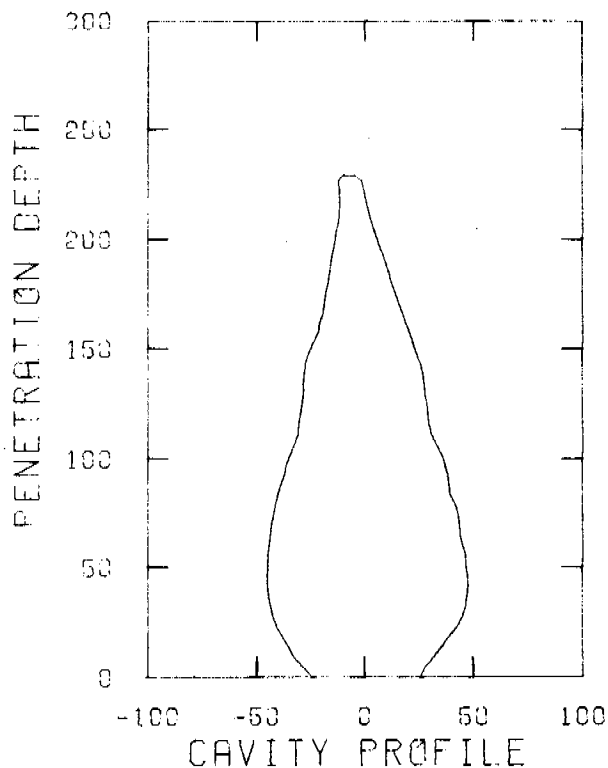
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	97	97
40	252	252
75	202	203
101	209	210
128	202	203

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	24
I	4	28
I	9	32
I	13	35
I	18	38
I	22	41
I	27	43
I	32	45
I	36	45
I	41	46
I	46	46
I	50	45
I	55	45
I	60	44
I	64	43
I	69	43
I	73	42
I	78	41
I	83	39
I	87	38
I	92	37
I	97	36
I	101	34
I	106	32
I	110	30
I	115	29
I	120	29
I	124	28
I	129	27
I	134	27
I	138	27
I	143	26
I	147	24
I	152	22
I	157	20
I	161	19
I	166	18
I	171	16
I	175	15
I	180	14
I	184	13
I	189	12
I	194	11
I	198	9
I	203	8
I	208	7
I	212	6
I	217	5



ROUND NUMBER 158 CONTINUED

I	222	5
I	226	5
I	229	2

ROUND NUMBER = 212

PROJECTILE MASS (GM) = 7.128

PROJECTILE TYPE = HORNADY, JHP

PROJECTILE VELOCITY (MPS) = 416.39

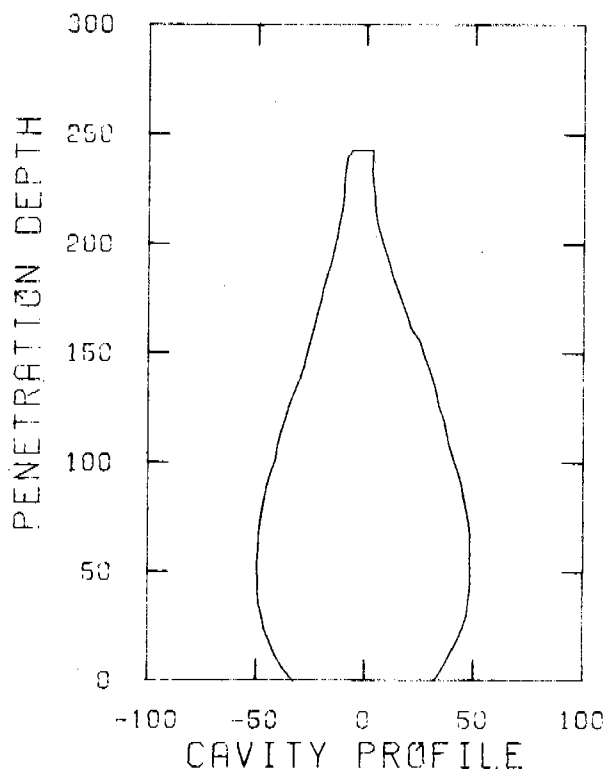
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
14	130	131
44	148	148
78	138	138
106	160	166
132	158	158

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	32
5	36
11	40
17	43
23	45
29	47
35	48
41	48
47	49
53	49
59	48
65	48
71	48
77	46
83	45
89	44
95	42
101	40
107	39
113	38
119	36
125	34
131	32
137	30
143	28
149	26
155	25
161	22
167	20
173	18
179	16
185	14
191	12
197	11
203	9
209	8
215	7
221	6
227	6
233	5
239	5
242	4



ROUND NUMBER - 211

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -466.77

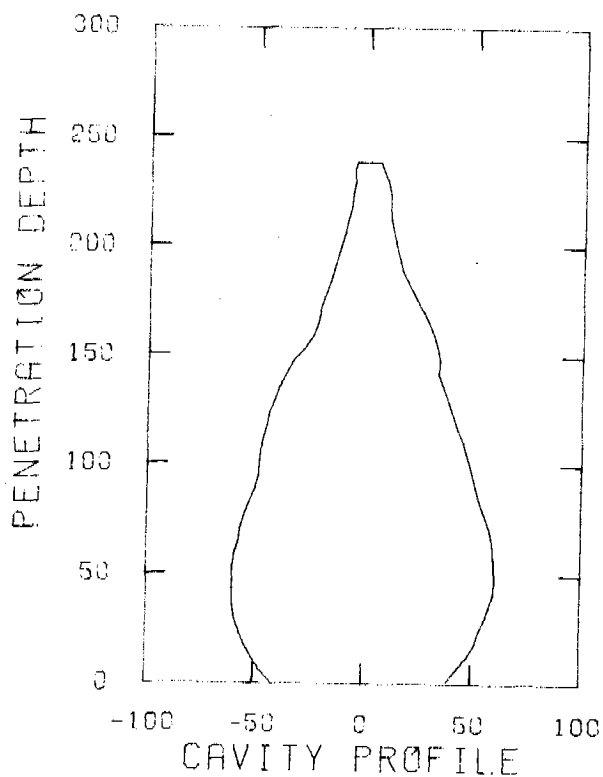
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
18	207	207
51	172	176
85	185	185
114	219	219
138	234	235

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	39
I	5	44
I	12	49
I	17	53
I	23	55
I	29	57
I	35	59
I	41	60
I	47	60
I	53	60
I	58	59
I	64	58
I	70	57
I	76	55
I	82	53
I	88	51
I	94	49
I	100	48
I	106	47
I	111	45
I	117	43
I	123	41
I	129	39
I	135	37
I	141	35
I	147	33
I	153	30
I	159	27
I	165	25
I	171	23
I	177	20
I	182	18
I	188	15
I	194	14
I	200	12
I	206	11
I	212	9
I	218	8
I	224	8
I	230	7
I	235	6
I	238	5



ROUND NUMBER - 146

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -233.03

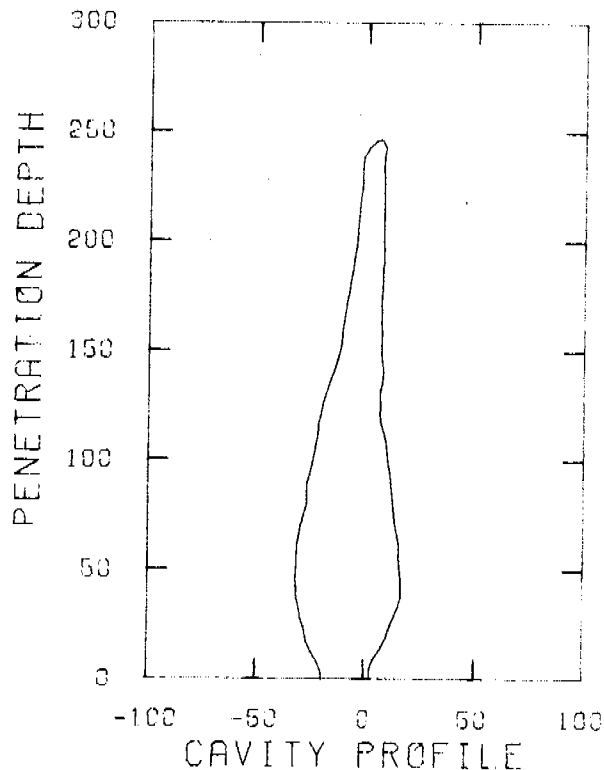
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
5	60	60
24	97	98
48	101	101
71	94	94
92	121	122

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	11
I	4	11
I	9	13
I	14	16
I	18	18
I	23	19
I	27	21
I	32	22
I	37	24
I	41	24
I	46	24
I	51	23
I	55	23
I	60	23
I	65	22
I	70	21
I	74	20
I	79	19
I	84	19
I	88	19
I	93	18
I	98	17
I	102	16
I	107	15
I	112	15
I	116	14
I	121	13
I	126	12
I	130	12
I	135	11
I	140	11
I	145	10
I	149	9
I	154	8
I	159	8
I	163	8
I	168	8
I	173	7
I	177	7
I	182	7
I	187	6
I	191	6
I	196	6
I	201	5
I	205	5
I	210	5
I	215	5
I	219	5



ROUND NUMBER 146 CONTINUED

I	224	4
I	229	4
I	234	4
I	238	4
I	243	3
I	246	0

ROUND NUMBER = 228

PROJECTILE MASS (GM) = 8.100

PROJECTILE TYPE = HORNADY, JHP

PROJECTILE VELOCITY (MPS) = 246.60

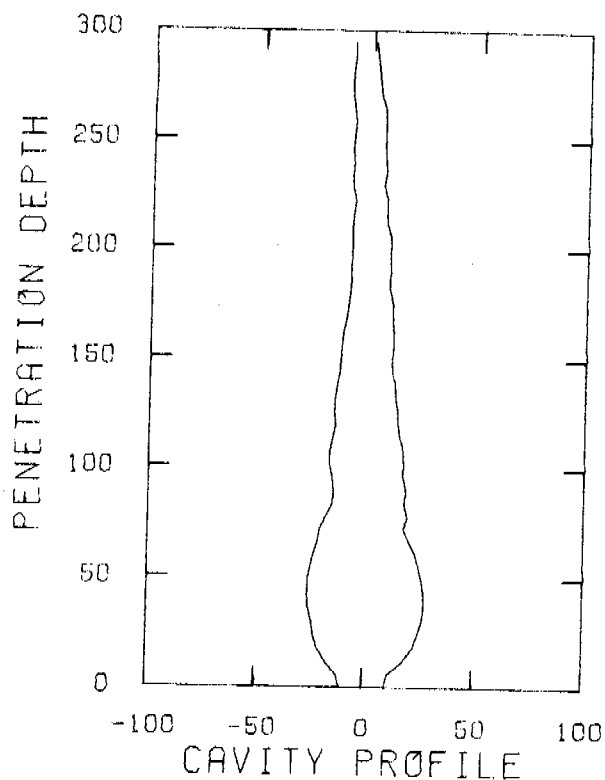
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
9	62	62
28	126	126
54	127	128
78	127	129
104	68	68

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	10
5	11
11	17
17	22
23	24
30	25
35	26
42	27
47	26
54	25
60	23
66	21
72	19
77	18
84	16
90	16
96	16
101	16
108	16
114	15
120	14
126	14
132	13
138	13
144	11
150	11
156	11
162	11
168	10
174	10
180	9
186	8
192	8
198	8
204	8
210	7
216	7
222	6
228	7
234	7
240	7
246	7
252	6
258	6
264	6
270	6
276	6
282	5



ROUND NUMBER 22A CONTINUED

1	288	4
1	294	4
1	300	4
1	306	4
1	312	4
1	318	4
1	324	4
1	0	0
1	0	0

ROUND NUMBER - 147

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE - HORNADY, JHP

PROJECTILE VELOCITY (MPS) - 289.46

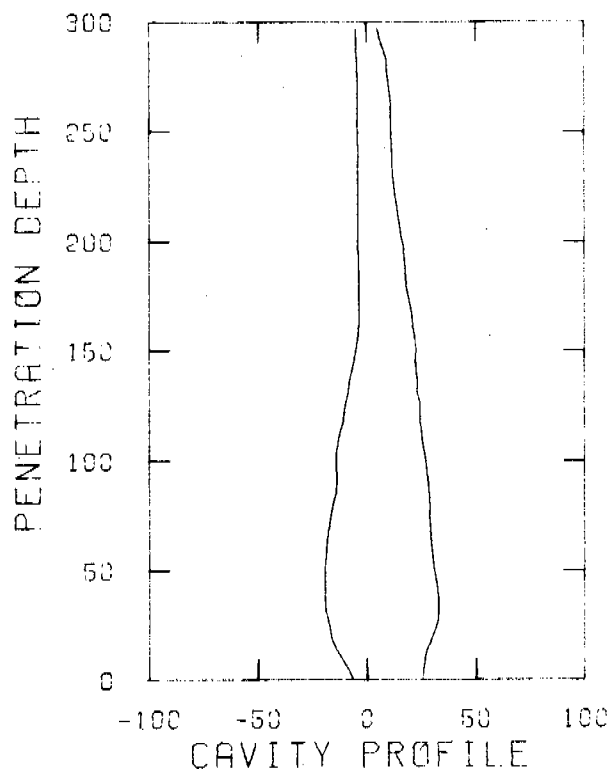
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
9	63	63
33	131	131
63	118	119
91	125	126
120	143	145

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	16
I	4	17
I	9	19
I	13	20
I	18	23
I	23	24
I	28	25
I	32	26
I	37	26
I	42	25
I	46	25
I	51	24
I	56	24
I	61	24
I	65	23
I	70	23
I	75	22
I	80	22
I	84	21
I	89	20
I	94	20
I	98	20
I	103	20
I	108	19
I	113	18
I	117	17
I	122	17
I	127	16
I	131	15
I	136	15
I	141	14
I	146	13
I	150	13
I	155	12
I	159	12
I	164	11
I	169	11
I	174	11
I	178	10
I	183	10
I	188	10
I	193	10
I	197	10
I	202	9
I	207	9
I	212	9
I	216	8
I	221	8



ROUND NUMBER 147 CONTINUED

I	225	7
I	230	7
I	235	7
I	240	7
I	244	7
I	249	7
I	254	7
I	259	7
I	263	7
I	268	7
I	273	6
I	277	6
I	282	6
I	287	6
I	291	5
I	296	4
I	301	4
I	306	4
I	310	4
I	315	4
I	320	4
I	324	4
I	0	0
I	0	0

ROUND NUMBER - 226

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -319.16

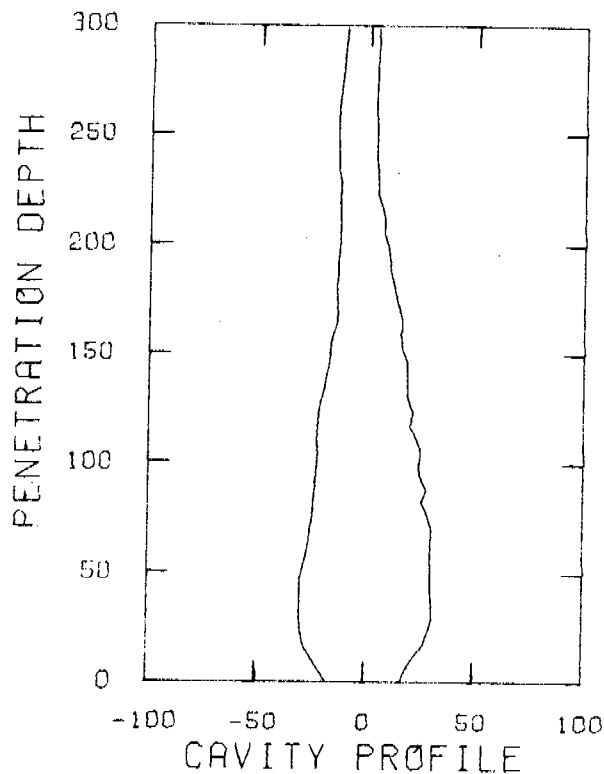
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
11	97	97
36	150	151
68	68	68
98	60	60
129	65	65

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	17
5	20
11	24
17	27
23	29
29	30
35	30
40	30
46	30
52	29
58	28
64	28
70	27
76	26
81	24
87	25
93	24
99	23
105	23
111	22
117	21
123	21
128	20
134	19
140	18
146	17
152	16
158	15
164	15
169	14
175	13
181	12
187	11
193	11
198	11
205	10
210	9
216	9
222	8
228	8
234	8
240	8
245	8
251	8
257	8
263	8
269	8
275	8



ROUND NUMBER 226 CONTINUED

I	281	7
I	286	7
I	292	7
I	298	7
I	304	6
I	310	6
I	316	6
I	321	6
I	0	0

ROUND NUMBER - 148

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE - HORNADY, JHP

PROJECTILE VELOCITY (MPS) - 345.19

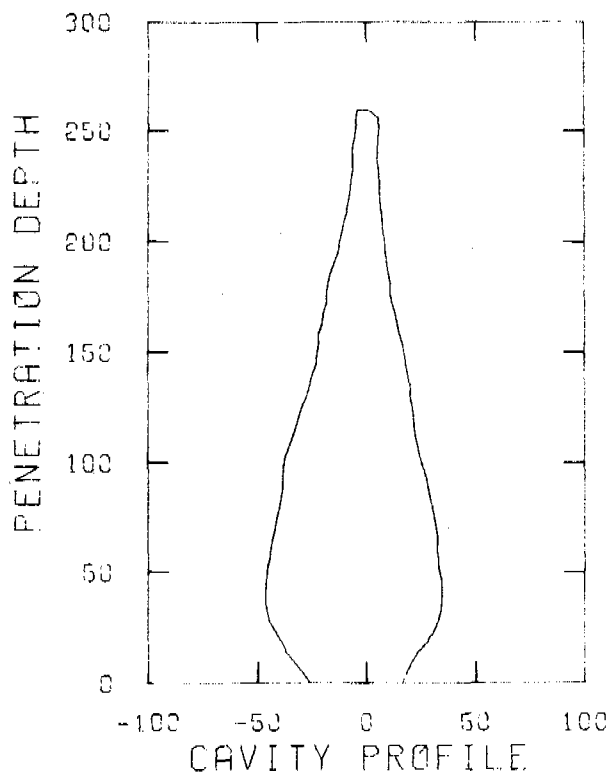
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
11	85	85
38	136	137
70	142	143
97	156	158
124	145	146

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	21
I	4	23
I	9	26
I	13	30
I	18	33
I	23	36
I	27	38
I	32	39
I	37	40
I	41	40
I	46	40
I	51	39
I	55	38
I	60	38
I	65	37
I	69	36
I	74	36
I	79	35
I	83	34
I	88	33
I	93	32
I	97	32
I	102	30
I	107	29
I	111	28
I	116	26
I	121	26
I	125	25
I	130	23
I	135	23
I	139	21
I	144	20
I	149	19
I	153	19
I	158	18
I	163	17
I	167	16
I	172	14
I	177	14
I	181	14
I	186	12
I	191	11
I	195	10
I	200	10
I	205	9
I	209	8
I	214	7
I	218	6



ROUND NUMBER 148 CONTINUED

I	223	6
I	228	6
I	232	5
I	237	5
I	242	5
I	246	5
I	251	5
I	255	4
I	259	2

ROUND NUMBER - 216

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -357.75

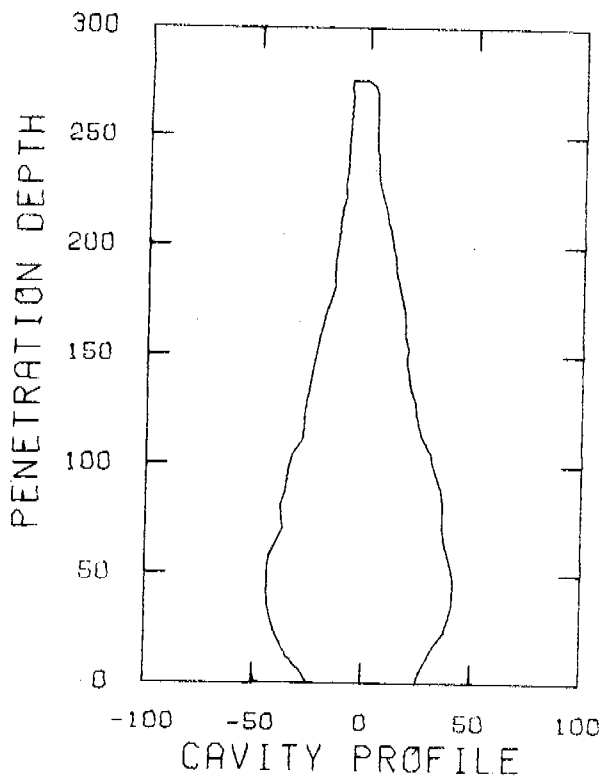
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	113	113
40	103	103
73	101	101
102	101	101
129	94	96

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	24
5	27
11	32
17	35
23	39
29	40
35	42
41	42
46	43
52	42
58	41
64	38
70	36
76	36
81	37
87	35
93	34
99	32
105	31
111	27
117	26
122	25
128	24
134	23
140	22
146	20
152	20
158	19
163	18
169	17
175	15
181	14
187	13
193	13
199	12
204	11
210	10
216	9
222	8
228	7
234	6
240	6
245	6
251	6
257	6
263	5
269	5
272	5



ROUND NUMBER 216 CONTINUED

1	275	3
1	0	0
1	0	0

ROUND NUMBER = 215

PROJECTILE MASS (GM) = 8.100

PROJECTILE TYPE = HORNADY, JHP

PROJECTILE VELOCITY (MPS) = 375.83

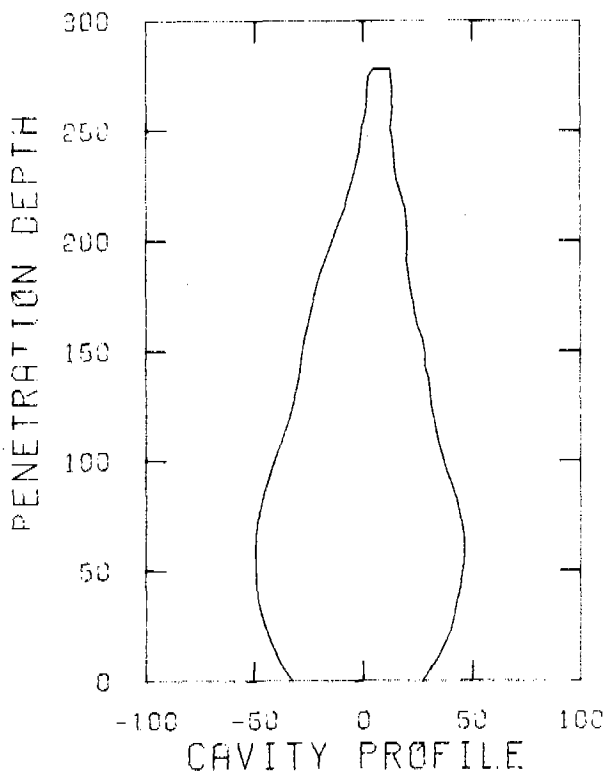
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
12	121	121
40	118	118
74	118	118
102	135	135
129	134	136

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	29
5	33
11	37
18	40
23	42
29	44
36	45
42	47
47	47
53	48
59	48
65	48
71	47
78	45
84	44
89	42
95	40
101	38
107	36
113	34
119	33
125	31
131	30
137	29
143	28
149	28
155	26
161	25
167	23
173	22
179	21
185	19
191	18
197	17
203	16
209	15
215	13
221	11
227	9
233	8
239	7
245	7
251	6
257	5
263	5
269	5
275	4
278	3



ROUND NUMBER - 145

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE - HORNADY, JHP

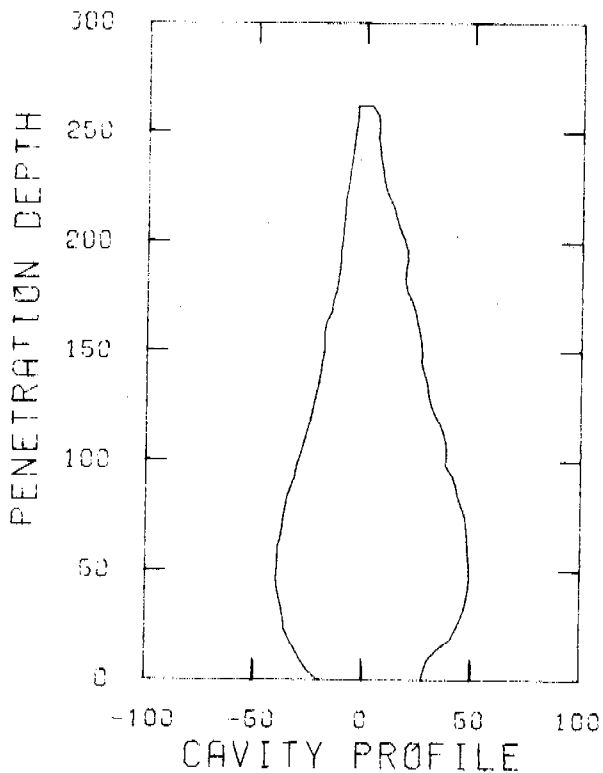
PROJECTILE VELOCITY (MPS) - 384.36

PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

I CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)	I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
14	104	104	I	0	23
41	126	127	I	4	26
76	137	137	I	9	29
104	125	125	I	13	32
132	119	119	I	18	36
			I	23	39
			I	28	40
			I	32	42
			I	37	43
			I	41	44
			I	46	44
			I	51	44
			I	56	43
			I	60	43
			I	65	42
			I	70	42
			I	74	41
			I	79	40
			I	84	39
			I	88	37
			I	93	36
			I	97	34
			I	102	33
			I	107	32
			I	112	31
			I	116	29
			I	121	28
			I	126	26
			I	130	25
			I	135	24
			I	140	23
			I	144	22
			I	149	22
			I	154	22
			I	158	21
			I	163	20
			I	168	19
			I	172	18
			I	177	16
			I	182	15
			I	186	15
			I	191	15
			I	196	15
			I	200	13
			I	205	12
			I	210	11
			I	214	11
			I	219	9



ROUND NUMBER 145 CONTINUED

I	224	8
I	228	7
I	233	7
I	238	6
I	242	5
I	247	5
I	252	5
I	257	4
I	261	3

ROUND NUMBER = 214

PROJECTILE MASS (GM) = 8.100

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) = 426.29

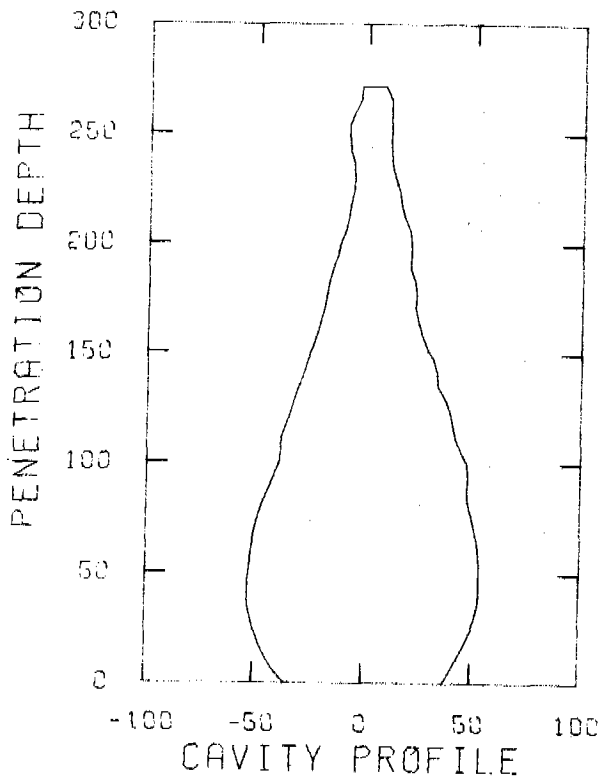
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
16	162	163
47	162	165
82	161	162
112	163	169
139	155	155

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	36
5	40
11	44
17	47
23	49
29	51
35	53
41	53
47	53
53	52
58	52
64	51
70	50
76	49
82	47
88	45
94	44
100	43
105	41
111	39
117	38
123	36
129	34
135	31
141	30
147	28
153	25
159	23
164	22
170	20
176	20
182	19
188	17
194	16
200	16
206	14
212	12
217	11
223	10
229	9
235	8
241	9
247	9
253	9
259	8
265	6
271	5
0	0



ROUND NUMBER - 157

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -258.74

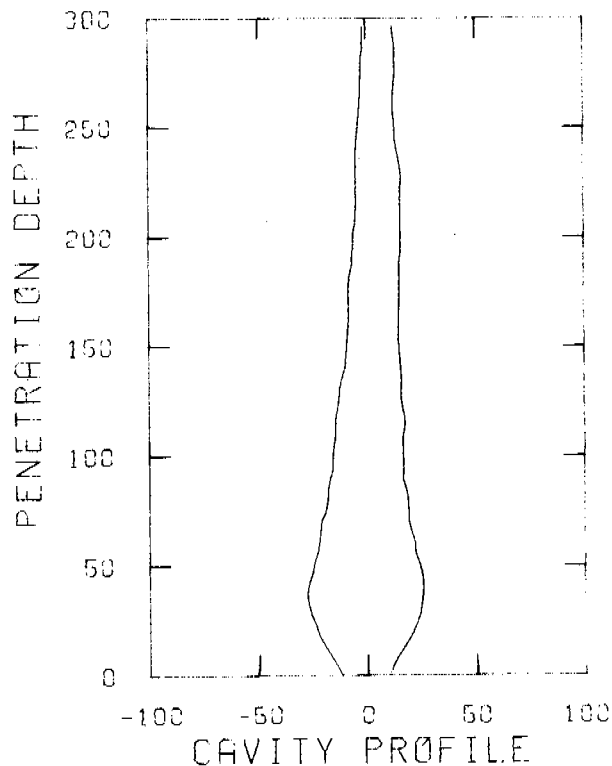
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
7	58	58
27	115	115
56	127	127
82	60	60
112	59	59

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	10
I	4	13
I	9	15
I	13	18
I	18	21
I	23	23
I	28	25
I	32	26
I	37	26
I	42	26
I	46	25
I	51	23
I	56	22
I	60	21
I	65	20
I	70	19
I	74	18
I	79	18
I	84	17
I	89	16
I	93	16
I	98	16
I	103	15
I	107	15
I	112	15
I	117	15
I	121	14
I	126	14
I	131	13
I	136	13
I	140	12
I	145	12
I	150	11
I	154	11
I	159	11
I	164	11
I	168	11
I	173	11
I	178	11
I	182	11
I	187	10
I	192	11
I	196	10
I	201	10
I	206	10
I	211	10
I	215	9
I	220	10



RJLNC NUMBER 157 CONTINUED

I	225	10
I	229	10
I	234	9
I	239	9
I	243	8
I	248	8
I	253	8
I	258	7
I	262	7
I	267	7
I	272	7
I	276	7
I	281	7
I	286	7
I	290	7
I	295	6
I	300	6
I	305	6
I	309	6
I	312	6
I	0	0

ROUND NUMBER - 156

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -HCRNADY, JHP

PROJECTILE VELOCITY (MPS) -303.28

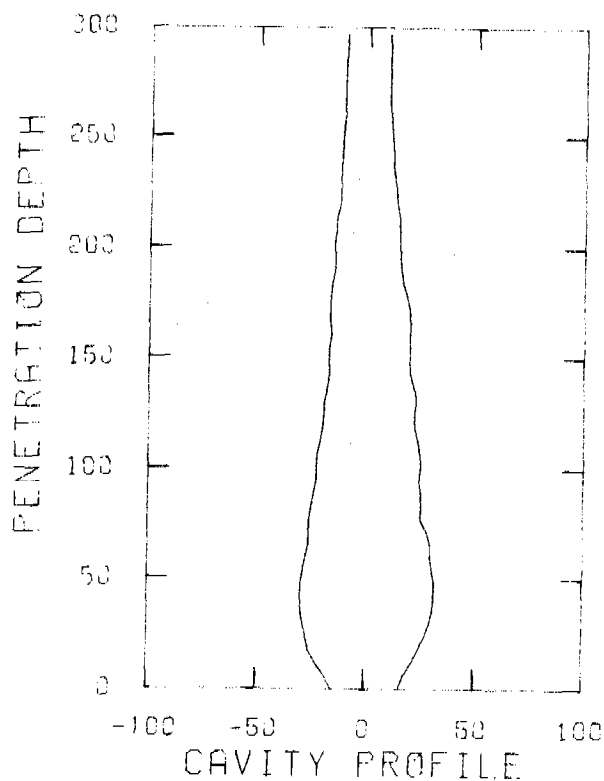
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
10	56	56
33	55	55
67	53	53
97	58	59
130	58	60

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	15
I	6	18
I	11	22
I	17	25
I	23	27
I	29	29
I	35	30
I	41	30
I	47	30
I	53	29
I	59	28
I	65	27
I	71	26
I	77	25
I	83	25
I	89	24
I	94	23
I	100	23
I	106	23
I	112	22
I	118	21
I	124	20
I	130	20
I	136	19
I	142	18
I	148	18
I	154	18
I	160	17
I	166	18
I	172	18
I	178	17
I	184	16
I	190	15
I	195	14
I	201	14
I	207	14
I	213	14
I	219	13
I	225	12
I	231	12
I	237	11
I	243	11
I	249	11
I	255	10
I	261	10
I	267	10
I	273	10
I	279	10



ROUND NUMBER 156 CONTINUED

I	285	9
I	290	9
I	296	9
I	302	9
I	308	8
I	314	8

ROUND NUMBER = 231

PROJECTILE MASS (GM) = 10.238

PROJECTILE TYPE = HORNADY, JHP

PROJECTILE VELOCITY (MPS) = 347.55

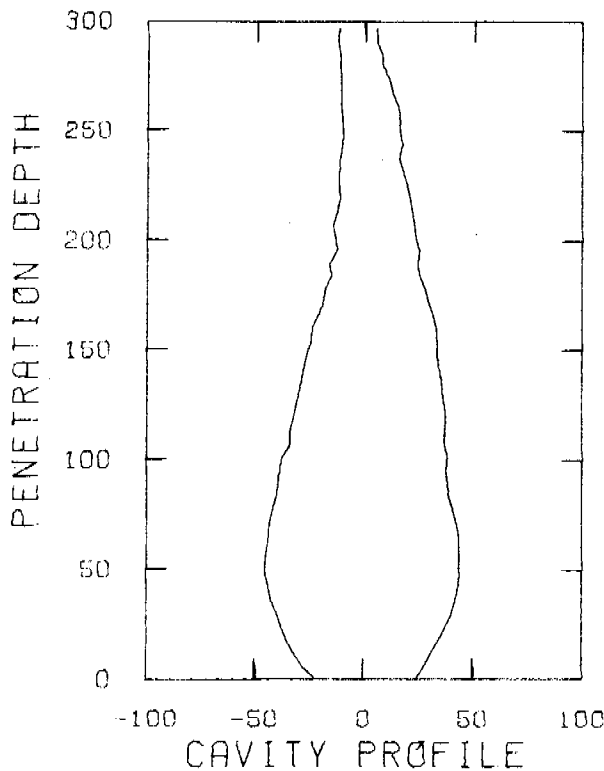
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
14	118	118
42	92	92
75	93	93
108	87	87
139	83	84

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	22
5	28
11	31
17	35
23	37
29	40
35	42
41	43
47	44
53	44
59	44
65	43
71	42
77	41
83	39
88	38
94	38
100	37
106	35
112	35
118	34
124	34
130	32
136	31
142	30
148	29
154	28
160	28
166	26
171	23
177	22
183	20
189	19
195	18
201	18
207	18
213	16
219	15
225	15
230	14
237	13
243	13
248	12
254	12
260	12
266	11
272	10
278	9



ROUND NUMBER 231 CONTINUED

I	284	9
I	290	8
I	296	8
I	302	8
I	308	7
I	314	6
I	319	5
I	322	5
I	0	0

ROUND NUMBER - 155

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -348.74

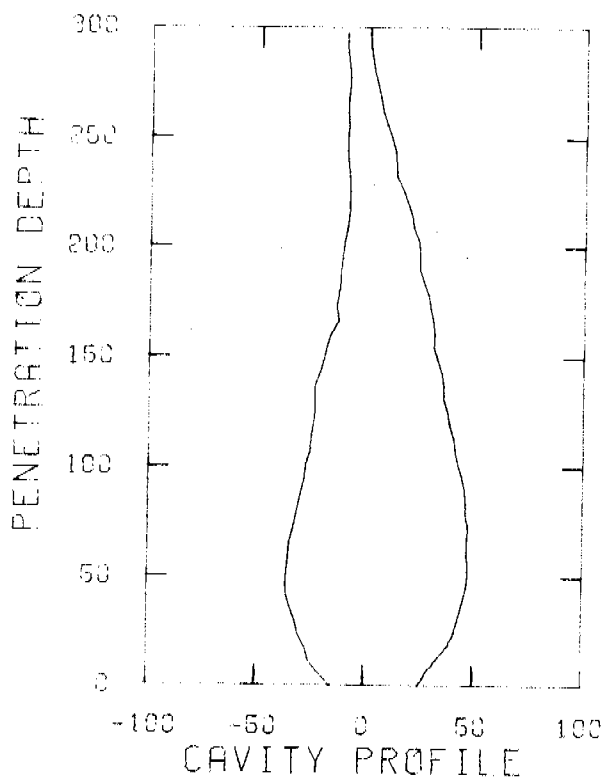
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DERORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
11	79	79
37	154	154
72	152	152
102	194	194
134	185	185

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	20
I	6	24
I	11	29
I	17	32
I	23	35
I	29	37
I	35	39
I	41	41
I	47	41
I	53	41
I	59	40
I	65	40
I	71	40
I	77	39
I	83	38
I	89	37
I	95	36
I	101	34
I	106	33
I	113	32
I	118	31
I	125	30
I	130	29
I	136	29
I	142	27
I	148	26
I	154	24
I	160	23
I	166	21
I	172	21
I	178	20
I	184	19
I	190	17
I	196	17
I	202	16
I	208	15
I	214	14
I	220	13
I	226	11
I	232	10
I	237	10
I	243	10
I	249	10
I	255	8
I	261	8
I	267	7
I	273	6
I	279	5



ROUND NUMBER 155 CONTINUED

I	285	5
I	291	5
I	297	5
I	303	4
I	309	4
I	314	3
I	320	3
I	0	0
I	0	0

ROUND NUMBER = 230

PROJECTILE MASS (GM) - 10.238

PROJECTILE TYPE - HORNADY, JHP

PROJECTILE VELOCITY (MPS) - 391.77

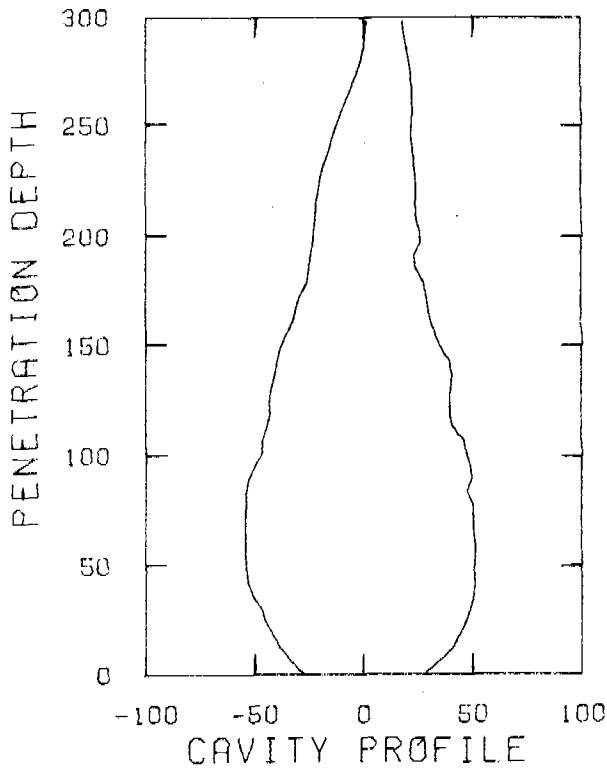
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
15	140	140
46	127	127
81	133	133
114	141	141
144	148	153

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	27
5	33
11	39
17	42
23	46
29	48
35	50
41	52
47	52
53	53
59	53
65	52
71	52
77	52
83	50
89	51
95	49
101	47
107	46
113	42
119	41
125	41
131	41
137	40
143	39
148	36
154	34
161	31
166	30
172	28
178	26
184	24
190	23
196	24
202	24
208	22
214	22
220	22
226	21
232	20
238	19
244	17
250	17
256	16
262	14
268	13
273	12
279	10



ROUND NUMBER 230 CONTINUED

I	285	9
I	291	8
I	297	7
I	303	6
I	309	6
I	315	6
I	320	6
I	0	0
I	0	0

ROUND NUMBER - 154

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (PPS) -395.33

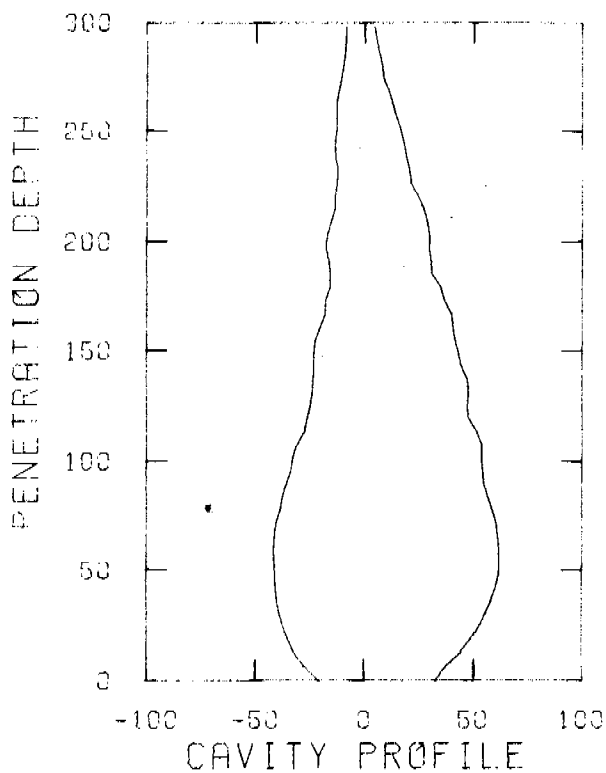
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	105	105
42	185	186
80	147	150
113	147	155
146	162	163

I CAVITY MEASUREMENTS

I	I	I
I	PENETRATION	CAVITY
I	DISTANCE (MM)	RADIUS(MM)
I	0	26
I	6	32
I	11	37
I	18	41
I	24	45
I	29	47
I	35	49
I	41	50
I	47	51
I	53	51
I	59	52
I	65	51
I	71	50
I	77	48
I	83	47
I	89	45
I	95	43
I	101	43
I	107	42
I	113	39
I	119	37
I	125	36
I	131	35
I	137	35
I	143	33
I	149	33
I	155	31
I	161	30
I	167	28
I	172	27
I	179	25
I	185	23
I	191	23
I	197	23
I	203	23
I	208	21
I	214	20
I	220	18
I	226	16
I	232	16
I	238	16
I	244	15
I	250	14
I	256	13
I	262	12
I	268	11
I	274	9
I	280	8



ROUND NUMBER 154 CONTINUED

I	286	7
I	292	6
I	298	6
I	304	5
I	310	5
I	316	5
I	322	5
I	327	1
I	0	0

ROUND NUMBER - 229

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -425.70

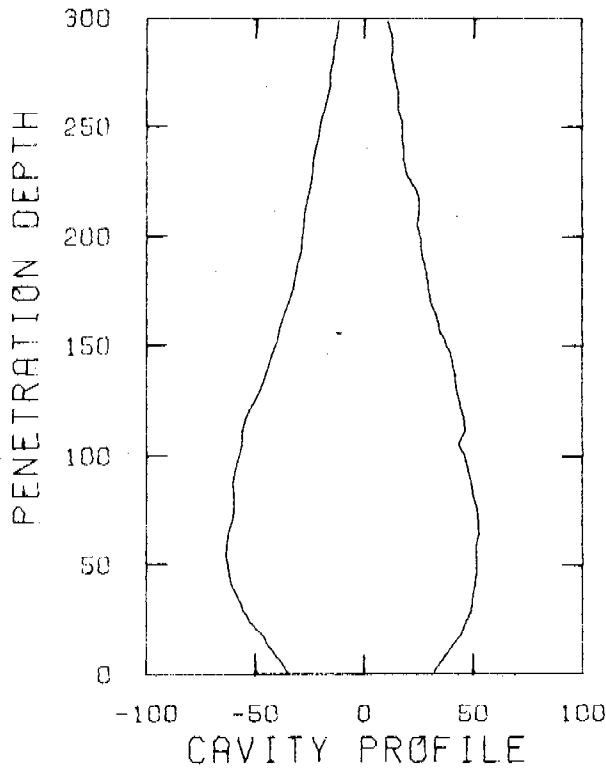
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
14	158	159
46	159	159
84	151	151
118	171	173
151	142	161

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	33
5	36
11	41
17	45
23	49
29	52
35	53
40	55
46	57
52	57
58	57
64	57
70	56
76	55
81	54
87	54
93	53
99	52
105	49
111	51
117	50
122	47
128	45
134	43
140	42
146	40
152	38
157	36
163	34
169	32
175	30
181	30
187	28
193	27
199	26
204	25
210	26
216	25
222	23
228	21
234	20
239	19
245	18
251	18
257	16
263	16
268	14
274	14



ROUND NUMBER 229 CONTINUED

1	280	13
1	286	13
1	292	12
1	298	10
1	304	9
1	309	9
1	315	8
1	321	7
1	0	0

ROUND NUMBER - 233

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -HORNADY, JPP

PROJECTILE VELOCITY (MPS) -382.43

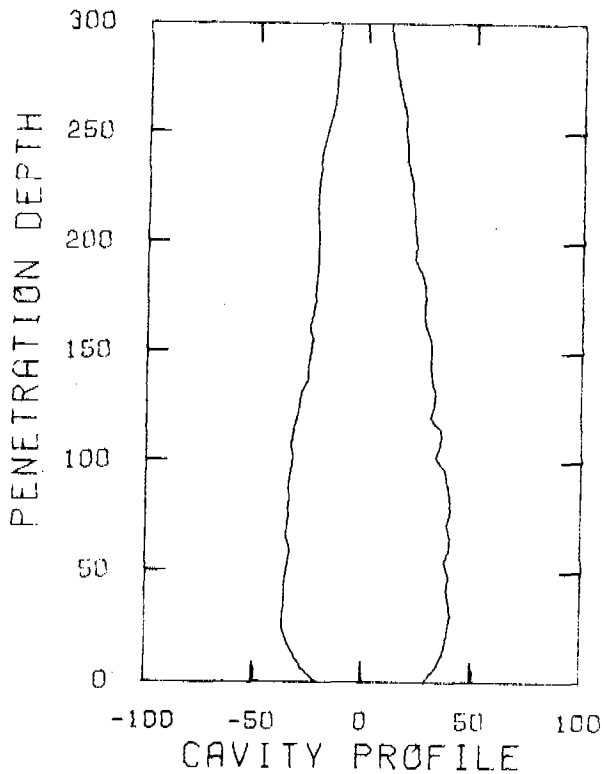
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
16	97	97
48	101	101
87	108	108
124	105	105
163	123	123

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	24
6	30
12	34
18	36
24	38
29	38
36	37
41	37
47	37
54	35
59	36
66	37
71	36
77	37
83	37
90	36
95	35
101	32
107	34
113	33
119	30
125	30
131	30
137	28
143	27
149	27
155	26
161	26
167	25
173	25
179	24
185	23
191	22
197	22
203	21
209	21
215	21
221	21
227	21
233	19
239	19
245	18
251	17
257	16
263	15
269	14
275	13
281	12



ROUND NUMBER 233 CONTINUED

I	287	12
I	293	11
I	299	11
I	305	10
I	311	10
I	317	9
I	318	9
I	0	0
I	0	0

ROUND NUMBER = 232

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -HORNADY, JSP

PROJECTILE VELOCITY (MPS) -480.76

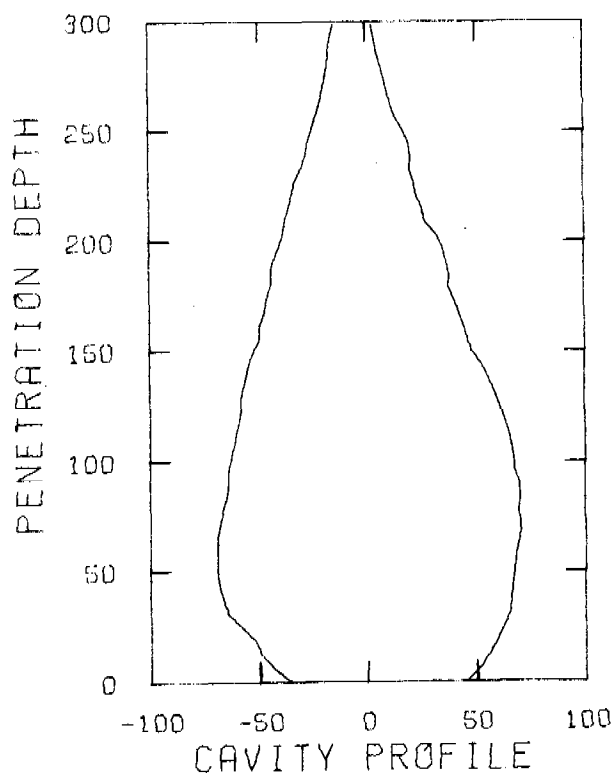
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
21	158	158
55	226	227
94	224	224
128	221	221
159	216	216

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	40
6	47
12	52
18	55
23	59
29	64
35	66
41	67
47	68
53	68
59	69
65	69
71	69
77	68
83	67
89	67
95	65
101	64
107	63
113	62
119	60
125	59
131	57
137	55
143	53
149	50
155	47
161	46
167	44
172	42
179	40
185	40
191	39
197	37
202	35
208	32
214	30
220	28
226	27
232	24
238	23
244	22
250	20
256	18
262	16
268	14
274	13
280	11



ROUND NUMBER 232 CONTINUED

I	286	10
I	292	9
I	298	8
I	304	7
I	310	7
I	316	7

ROUND NUMBER - 256

PROJECTILE MASS (GM)-13.608

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -220.87

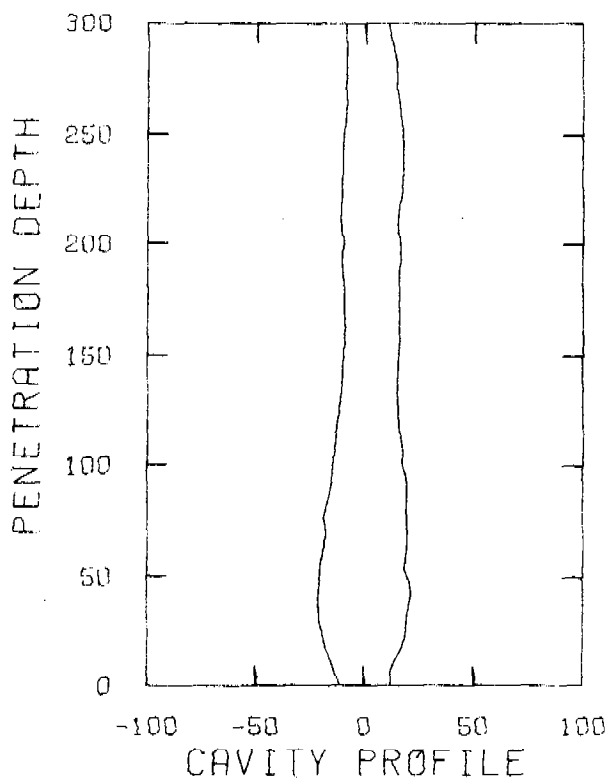
PROJECTILE DIAMETER (CM) - 1.041

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
10	75	75
29	91	91
53	85	85
76	94	96
102	88	88

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	11
5	12
11	14
17	17
23	19
29	20
35	20
41	21
46	20
52	19
58	19
64	18
70	18
76	18
82	18
88	17
94	16
100	15
105	15
111	14
117	14
123	13
129	12
135	12
141	12
147	12
152	12
158	12
164	12
170	12
176	12
182	12
188	13
194	13
199	12
205	12
211	13
217	13
223	13
229	13
235	13
241	14
246	13
252	13
258	12
264	11
270	11
276	11



ROUND NUMBER 256 CONTINUED

I	282	11
I	288	10
I	294	10
I	299	9
I	305	9
I	311	9
I	313	9
I	0	0
I	0	0

ROUND NUMBER - 255

PROJECTILE MASS (GM)-13.608

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -261.1A

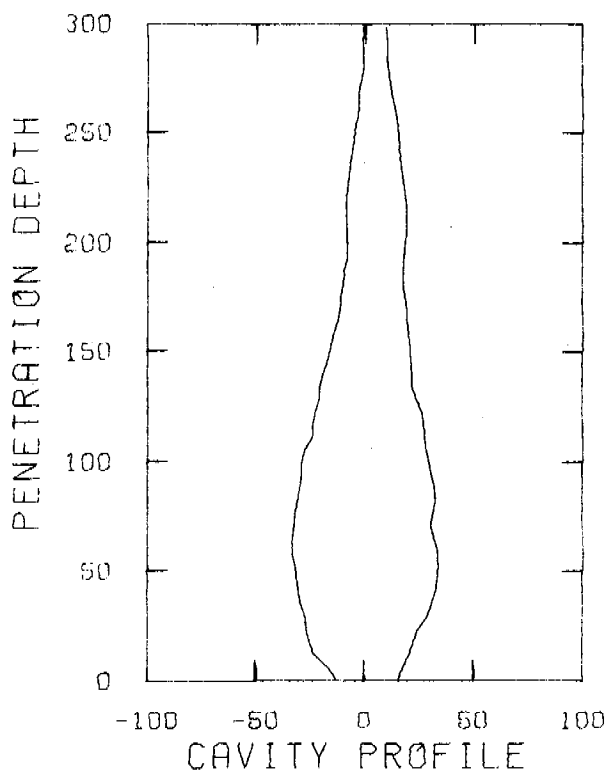
PROJECTILE DIAMETER (CM) - 1.041

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
14	97	97
35	125	125
61	122	122
86	120	121
112	111	113

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	14
5	17
11	21
17	24
23	25
29	28
35	30
41	31
46	32
52	33
58	33
64	32
70	31
76	31
81	31
87	30
93	29
99	29
105	27
111	25
116	25
122	24
128	21
134	20
140	20
146	18
151	17
157	17
164	15
169	15
175	14
181	13
187	13
193	12
198	13
204	13
210	13
216	13
222	13
228	12
233	11
239	10
245	10
251	9
257	8
262	7
268	7
274	6



OUND NUMBER 255 CONTINUED

I	280	5
I	286	5
I	292	5
I	298	4
I	303	4
I	309	4
I	312	4
I	0	0
I	0	0

ROUND NUMBER - 254

PROJECTILE MASS (GM) - 13.609

PROJECTILE TYPE - HORNADY, JHP

PROJECTILE VELOCITY (MPS) - 279.38

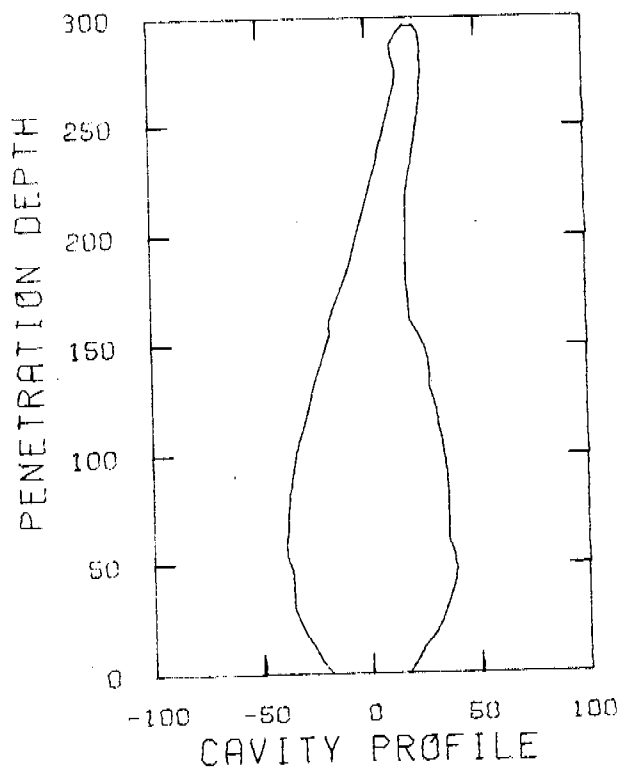
PROJECTILE DIAMETER (CM) - 1.041

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
15	97	97
37	157	157
64	140	140
89	160	160
114	154	154

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	17
6	21
12	25
18	29
23	32
30	35
35	36
41	37
47	37
53	38
59	37
65	37
71	37
77	36
83	36
89	35
95	34
101	33
107	32
113	30
119	29
125	27
131	26
137	25
143	23
149	22
155	20
161	18
167	17
173	15
179	14
185	12
191	12
197	11
203	10
209	9
215	9
221	8
227	8
233	7
239	8
244	7
251	7
256	6
263	6
269	5
274	5
280	6



ROUND NUMBER 254 CONTINUED

1	286	7
1	292	4
1	296	2

ROUND NUMBER - 253

PROJECTILE MASS (GM)-13.608

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -313.90

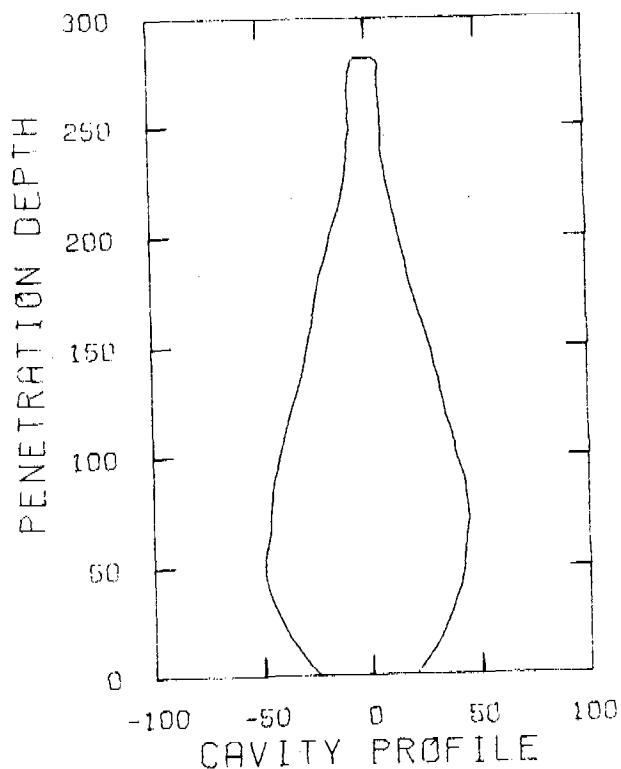
PROJECTILE DIAMETER (CM) - 1.041

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
17	132	132
40	208	208
68	217	217
95	227	229
122	208	208

I CAVITY MEASUREMENTS

I	I	I
I	PENETRATION	CAVITY
I	DISTANCE (MM)	RADIUS(MM)
I	0	22
I	6	26
I	11	31
I	17	35
I	23	37
I	29	40
I	35	42
I	41	44
I	47	45
I	53	46
I	59	45
I	65	45
I	71	45
I	76	45
I	82	44
I	88	43
I	94	41
I	100	40
I	106	39
I	112	37
I	118	35
I	124	34
I	130	32
I	136	31
I	142	29
I	148	28
I	153	26
I	159	25
I	165	23
I	171	22
I	177	21
I	183	19
I	189	18
I	195	16
I	201	15
I	207	13
I	212	12
I	218	10
I	224	9
I	230	8
I	236	7
I	242	7
I	248	6
I	254	7
I	260	6
I	266	6
I	272	6
I	278	6



OUND NUMBER 253 CONTINUED

I	279	5
I	281	3
I	0	0

ROUND NUMBER - 252

PROJECTILE MASS (GM)-13.609

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -354.83

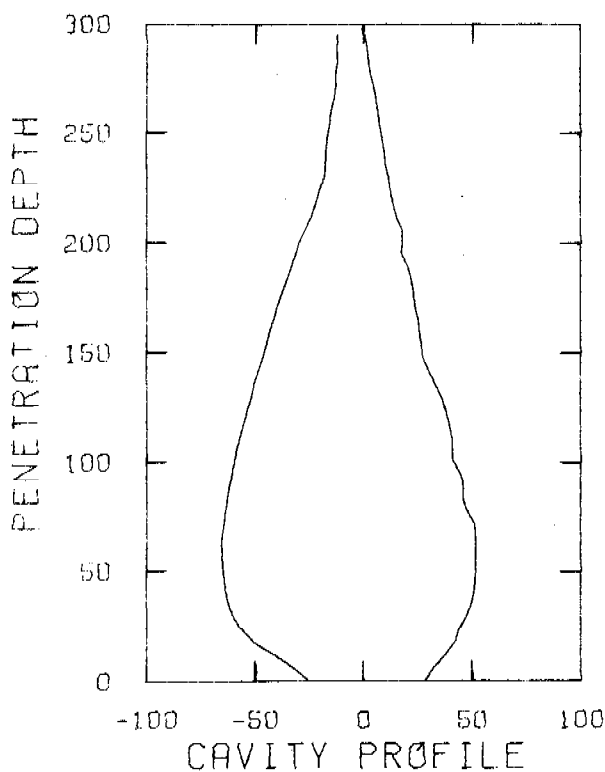
PROJECTILE DIAMETER (CM) - 1.041

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
17	133	134
43	245	245
75	228	228
105	243	244
134	245	245

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(4M)
0	26
5	32
11	39
17	46
23	50
29	54
35	56
41	57
47	58
53	58
59	58
64	58
70	58
76	56
82	54
88	53
94	52
100	50
106	49
112	48
117	46
123	45
129	43
135	41
141	38
147	36
153	35
159	34
165	32
171	31
177	30
182	28
188	26
194	24
200	23
206	21
212	19
218	17
224	16
230	14
236	13
241	13
247	12
253	11
259	10
265	9
271	8
277	7



ROUND NUMBER 252 CONTINUED

I	283	6
I	289	6
I	295	5
I	300	5
I	306	4
I	308	3

ROUND NUMBER = 244

PROJECTILE MASS (GM) - 12.960

PROJECTILE TYPE - HORNDAY, JHP

PROJECTILE VELOCITY (MPS) - 230.73

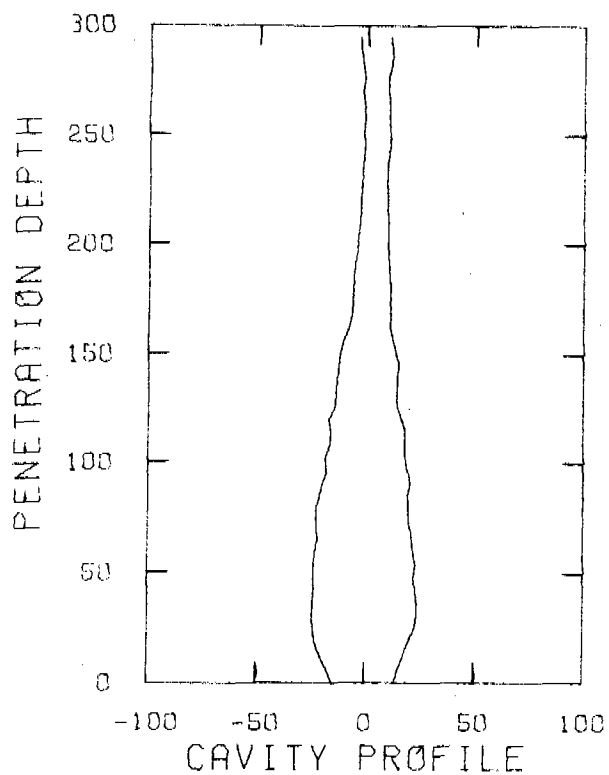
PROJECTILE DIAMETER (CM) = 1.092

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
8	87	87
28	97	97
51	97	97
75	87	87
99	97	97

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	14
6	16
11	19
18	21
23	23
29	24
36	24
41	23
48	23
54	23
60	22
66	21
71	21
78	21
84	20
90	20
96	18
102	18
108	17
114	16
120	16
126	13
132	13
138	13
144	13
150	12
156	11
162	9
168	8
174	8
180	8
186	7
192	7
198	6
204	6
210	6
216	5
222	5
228	5
234	5
240	5
246	5
252	5
258	5
264	5
270	5
276	5
282	6



ROUND NUMBER 244 CONTINUED

1	288	7
1	294	7
1	300	6
1	304	5
1	0	0
1	0	0

ROUND NUMBER - 238

PROJECTILE MASS (GM)-12.960

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -266.20

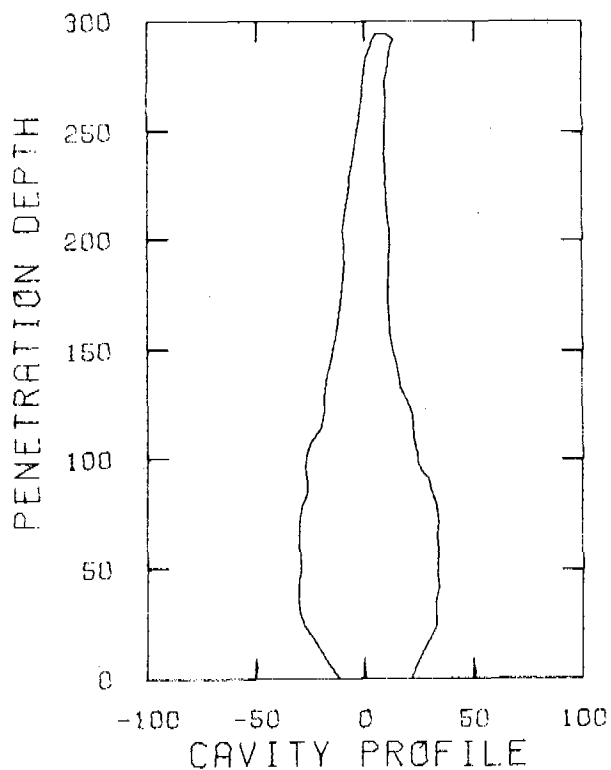
PROJECTILE DIAMETER (CM) - 1.092

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	107	107
35	122	122
61	125	125
85	125	126
109	127	127

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	16
6	20
12	23
18	26
24	30
30	31
36	31
42	32
48	31
54	31
60	32
66	31
72	31
78	31
84	28
90	27
96	26
102	25
108	23
114	20
120	20
126	18
132	17
138	16
144	14
150	13
156	12
162	11
168	10
174	10
180	10
186	9
192	10
198	10
204	10
210	9
216	8
222	8
228	7
234	7
240	6
246	6
252	5
258	5
264	5
270	4
276	5
282	5



ROUND NUMBER 238 CONTINUED

I	288	4
I	291	4
I	294	2

ROUND NUMBER - 237

PROJECTILE MASS (GM)-12,960

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -295.92

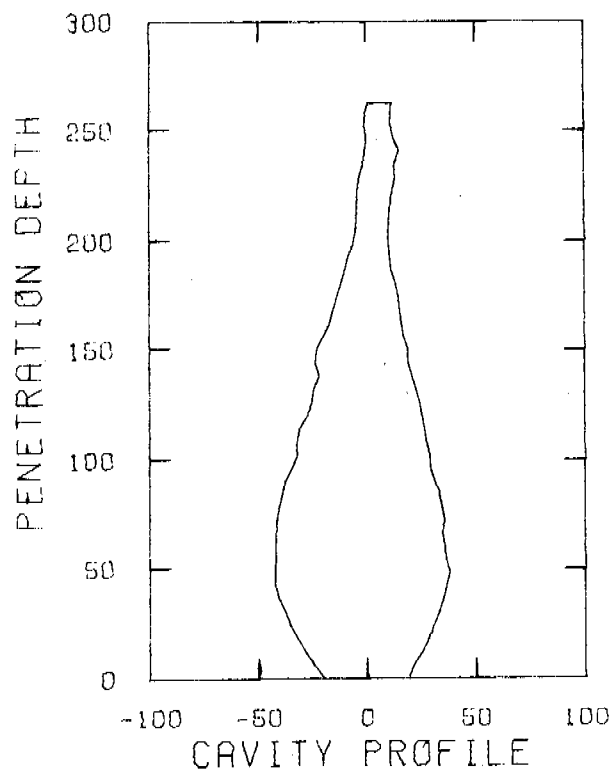
PROJECTILE DIAMETER (CM) = 1.092

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	115	115
37	162	162
64	157	157
89	171	171
113	165	165

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	19
6	22
12	26
18	30
24	32
30	35
36	37
42	39
48	40
54	39
60	38
66	38
72	38
78	37
84	36
90	34
96	31
102	30
108	29
114	28
120	25
126	24
132	23
138	20
144	21
150	20
156	18
162	16
168	15
174	13
180	12
186	10
192	9
198	7
204	7
210	7
216	7
222	7
228	8
234	7
240	7
246	5
252	5
258	5
263	5



ROUND NUMBER - 236

PROJECTILE MASS (GM) - 12.960

PROJECTILE TYPE - HORNADY, JHP

PROJECTILE VELOCITY (MPS) - 317.50

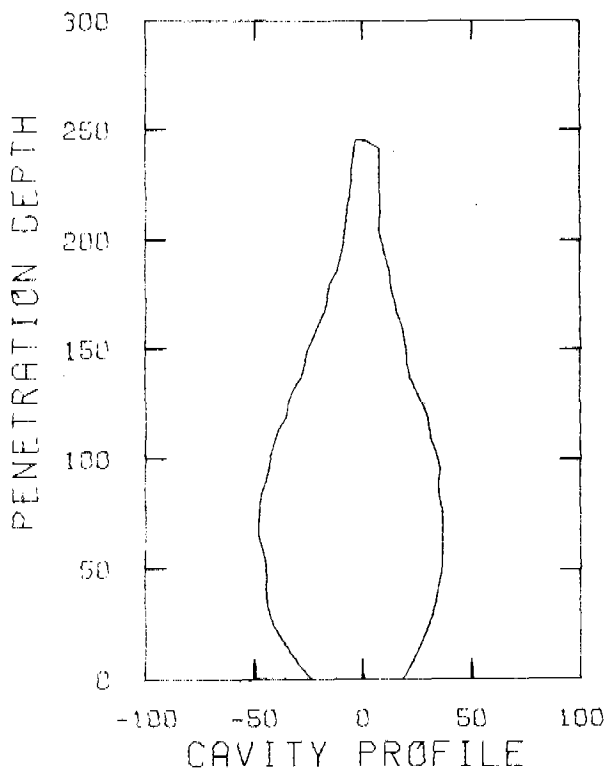
PROJECTILE DIAMETER (CM) - 1.092

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
14	125	125
38	187	188
66	191	191
93	197	197
117	180	181

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	21
6	25
11	29
18	32
24	35
30	37
36	39
41	39
47	40
54	41
59	41
66	42
71	42
77	42
83	41
89	39
95	39
101	38
107	36
113	34
119	32
125	30
131	28
137	24
143	23
149	22
155	20
161	18
167	16
173	14
179	13
185	11
191	10
197	8
203	7
209	7
215	7
221	6
227	6
233	6
238	5
241	5
243	3
245	1
0	0



ROUND NUMBER - 235

PROJECTILE MASS (GM)-12.960

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -337.54

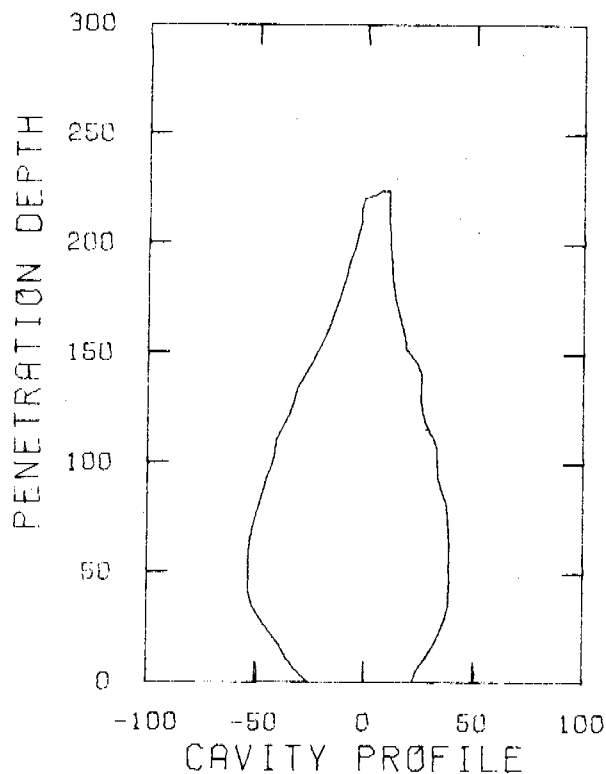
PROJECTILE DIAMETER (CM) - 1.092

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
15	157	157
39	222	222
69	223	223
94	237	237
119	232	232

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	24
I	5	28
I	11	32
I	17	36
I	23	39
I	29	42
I	34	45
I	40	46
I	46	46
I	52	46
I	58	46
I	64	46
I	69	45
I	75	44
I	81	43
I	87	40
I	93	39
I	98	37
I	104	37
I	110	36
I	116	32
I	122	30
I	128	28
I	134	28
I	140	26
I	145	23
I	151	20
I	157	17
I	163	16
I	169	14
I	175	12
I	180	11
I	186	10
I	192	9
I	198	7
I	204	7
I	209	5
I	215	5
I	220	5
I	222	2
I	224	1
I	0	0



ROUND NUMBER - 245

PROJECTILE MASS (GM)-12.960

PROJECTILE TYPE -HORNDA, JHP

PROJECTILE VELOCITY (MPS) -374.45

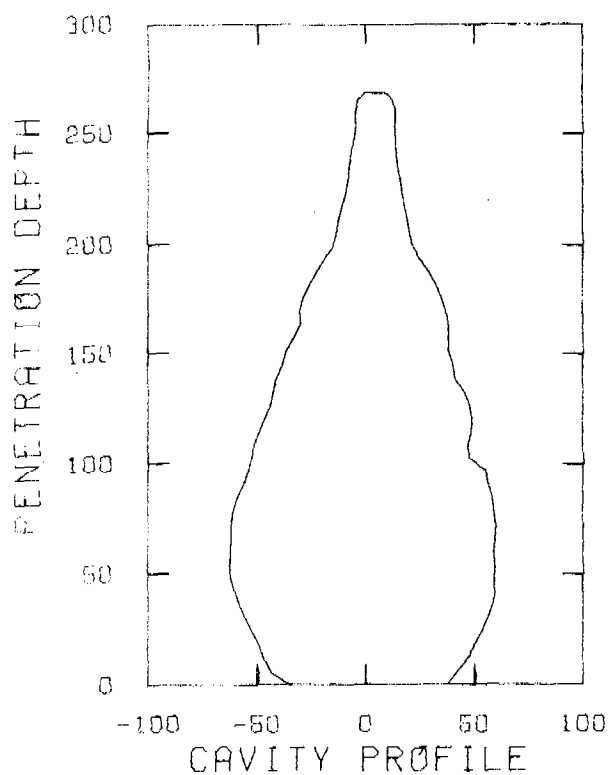
PROJECTILE DIAMETER (CM) - 1.092

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
18	186	186
44	330	330
77	295	296
104	273	273
131	289	289

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	36
5	43
12	47
18	49
24	53
30	56
36	58
42	60
48	61
54	61
60	60
66	60
72	61
78	60
84	58
90	56
96	54
102	50
108	49
114	48
120	47
127	45
133	43
139	41
145	38
151	37
157	35
163	33
169	33
175	31
181	28
187	25
193	21
199	17
205	15
211	15
217	13
223	12
229	11
236	10
241	10
248	9
254	8
259	8
266	7
268	5
269	3
0	0



ROUND NUMBER -- 369

PROJECTILE MASS (GM) --12.960

PROJECTILE TYPE --HORNADY,JHP,44MAG

PROJECTILE VELOCITY (MPS) --383.74

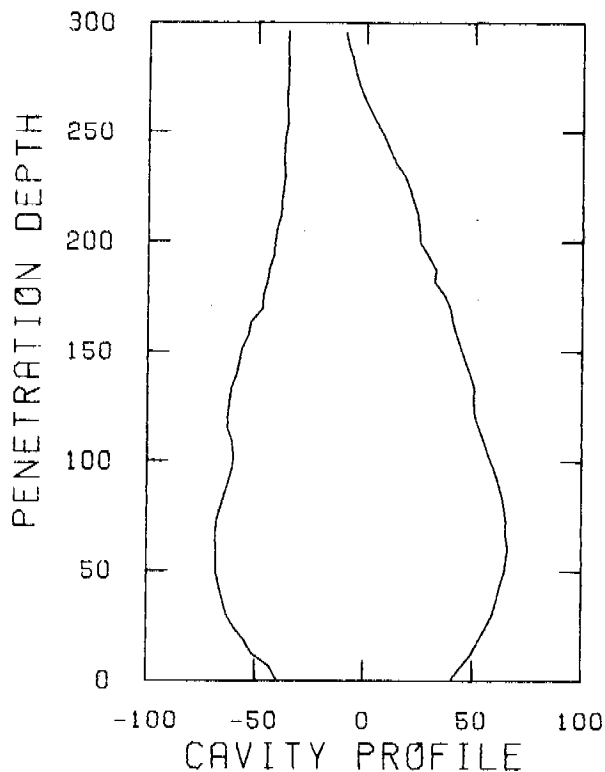
PROJECTILE DIAMETER (CM) -- 10.846

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-5	163	163
20	402	402
51	317	325
82	305	311
112	333	402
149	351	355
167	354	354

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	39
I	6	44
I	12	50
I	18	53
I	24	58
I	30	61
I	36	63
I	42	64
I	48	66
I	54	66
I	60	67
I	66	66
I	72	66
I	78	65
I	84	63
I	91	62
I	97	60
I	103	58
I	109	57
I	115	57
I	121	56
I	127	56
I	133	55
I	139	53
I	145	51
I	151	50
I	157	47
I	163	46
I	169	43
I	175	41
I	181	38
I	187	38
I	193	35
I	199	33
I	206	32
I	212	31
I	217	30
I	223	29
I	229	27
I	236	25
I	242	24
I	248	22
I	254	20
I	260	18
I	266	17
I	272	16
I	278	15
I	284	14



ROUND NUMBER 369 CONTINUED

1	290	13
1	295	13
1	302	13
1	308	11
1	314	11
1	320	9

ROUND NUMBER - 246

PROJECTILE MASS (GM)-15.552

PROJECTILE TYPE -HORNDAY, JHP

PROJECTILE VELOCITY (MPS) -235.55

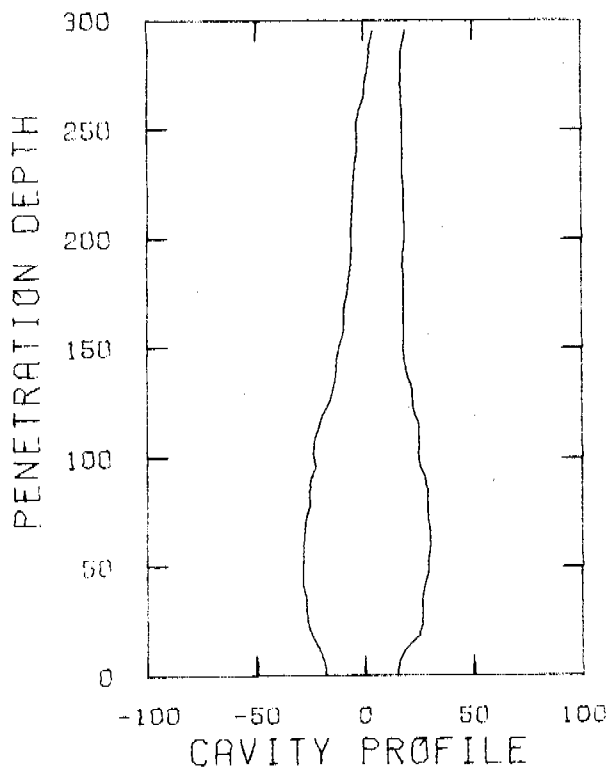
PROJECTILE DIAMETER (CM) - 1.092

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
14	103	103
33	129	129
57	117	117
80	135	135
103	113	114

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	16
5	17
11	19
18	24
24	26
30	26
36	27
42	28
48	29
54	28
60	29
66	28
72	28
78	27
84	27
90	26
96	23
102	24
108	24
114	23
120	20
126	18
132	17
138	15
144	15
150	14
156	13
162	13
168	13
174	12
180	12
186	11
192	11
198	12
204	12
210	11
216	11
223	11
228	10
234	10
240	10
247	10
252	10
259	9
265	8
271	7
277	7
283	7



ROUND NUMBER 246 CONTINUED

I	289	7
I	295	7
I	301	7
I	307	8
I	313	8
I	319	8

ROUND NUMBER - 242

PROJECTILE MASS (GM)-15.552

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -262.08

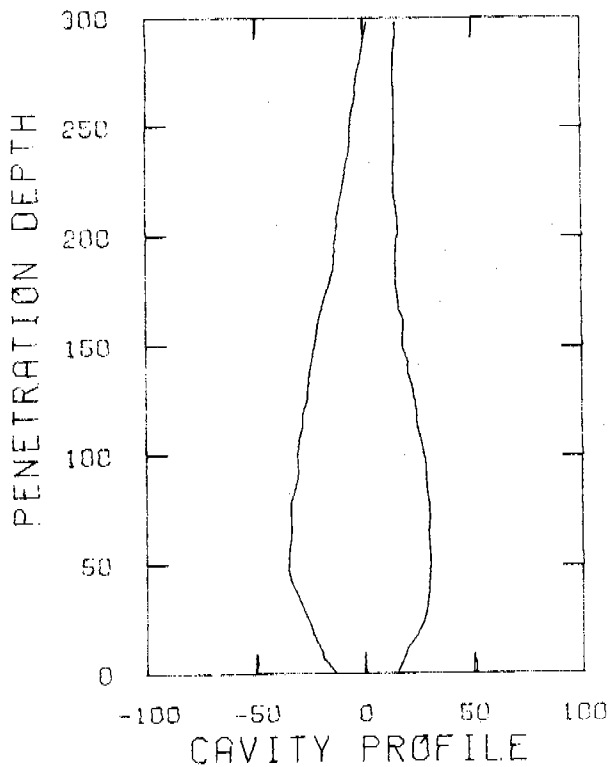
PROJECTILE DIAMETER (CM) - 1.092

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
11	100	100
32	144	144
59	138	139
84	153	156
109	124	126

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	14
I	6	17
I	12	20
I	17	23
I	23	26
I	29	28
I	35	30
I	41	31
I	47	32
I	53	32
I	59	32
I	65	31
I	71	32
I	77	31
I	83	30
I	89	29
I	95	29
I	101	28
I	107	27
I	113	26
I	119	26
I	125	24
I	131	23
I	137	22
I	143	21
I	149	20
I	154	19
I	160	19
I	167	17
I	172	16
I	178	14
I	184	14
I	190	13
I	196	13
I	202	14
I	208	13
I	214	12
I	220	11
I	226	10
I	232	10
I	238	10
I	244	9
I	250	9
I	256	9
I	262	8
I	268	8
I	274	7
I	280	7



ROUND NUMBER 242 CONTINUED

I	286	7
I	292	7
I	297	6
I	303	5
I	309	5
I	316	5
I	321	5
I	0	0
I	0	0

ROUND NUMBER - 241

PROJECTILE MASS (GM)-15.552

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -302.68

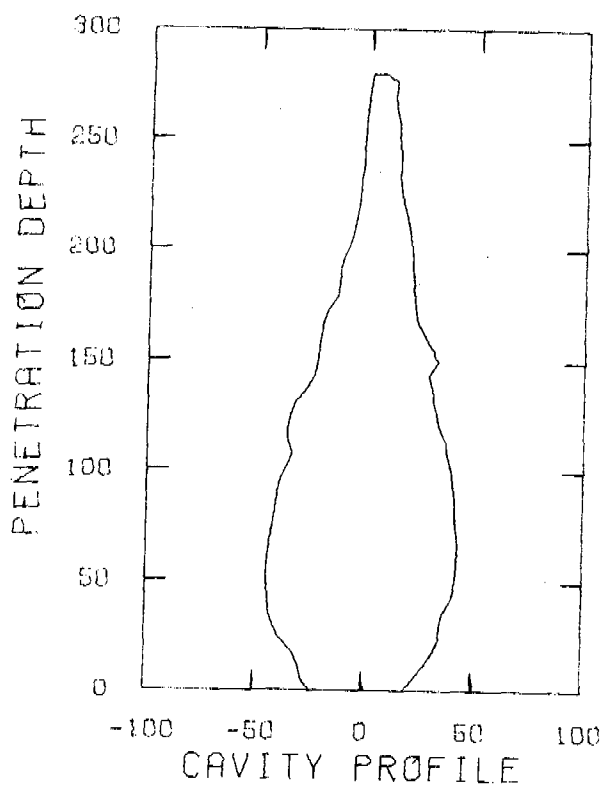
PROJECTILE DIAMETER (CM) - 1.092

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	119	119
37	219	219
65	189	189
93	198	198
118	194	196

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	21
6	26
12	29
18	32
24	36
29	38
36	40
42	42
48	43
53	43
59	43
65	43
71	42
77	41
83	41
89	40
95	39
101	37
107	35
113	35
119	34
125	33
131	31
137	28
143	26
149	27
155	26
161	23
167	21
173	19
179	17
185	16
191	16
197	15
203	13
209	12
215	11
221	9
227	8
233	8
239	8
245	8
251	7
257	7
263	6
268	5
275	5
276	5



ROUND NUMBER 241 CONTINUED

1	278	3
1	279	2
1	0	0

ROUND NUMBER - 239

PROJECTILE MASS (GM)-15.552

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -341.32

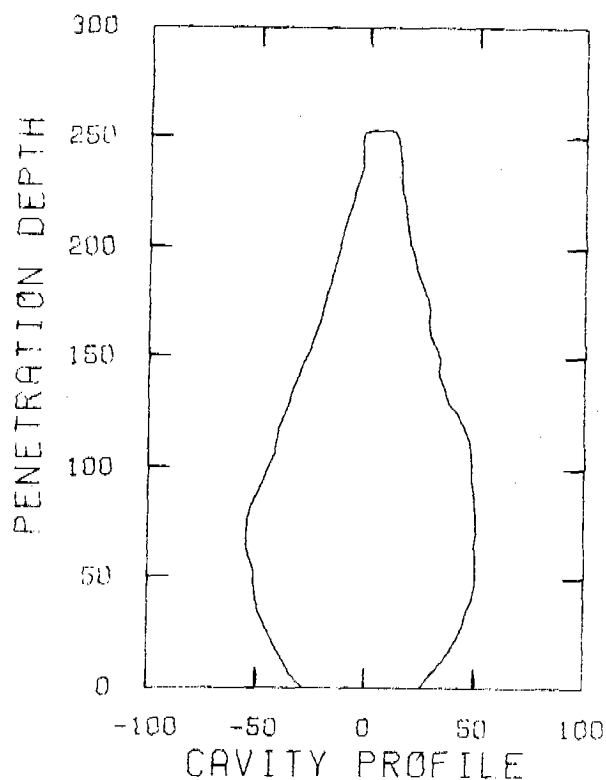
PROJECTILE DIAMETER (CM) - 1.092

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
16	160	160
41	300	300
72	281	281
98	268	268
123	242	257

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	26
I	5	31
I	11	36
I	17	40
I	23	43
I	29	45
I	35	48
I	41	50
I	47	51
I	53	51
I	59	52
I	65	52
I	71	53
I	77	52
I	83	51
I	88	49
I	94	47
I	100	46
I	106	45
I	112	43
I	118	42
I	124	39
I	130	36
I	136	34
I	142	31
I	148	31
I	154	28
I	160	26
I	166	24
I	171	24
I	177	23
I	183	20
I	189	19
I	195	17
I	201	15
I	207	14
I	213	13
I	219	11
I	225	10
I	230	9
I	236	8
I	242	8
I	248	7
I	252	6
I	253	3



ROUND NUMBER - 240

PROJECTILE MASS (GM)-15,552

PROJECTILE TYPE -HORNADY, JHP

PROJECTILE VELOCITY (MPS) -315,53

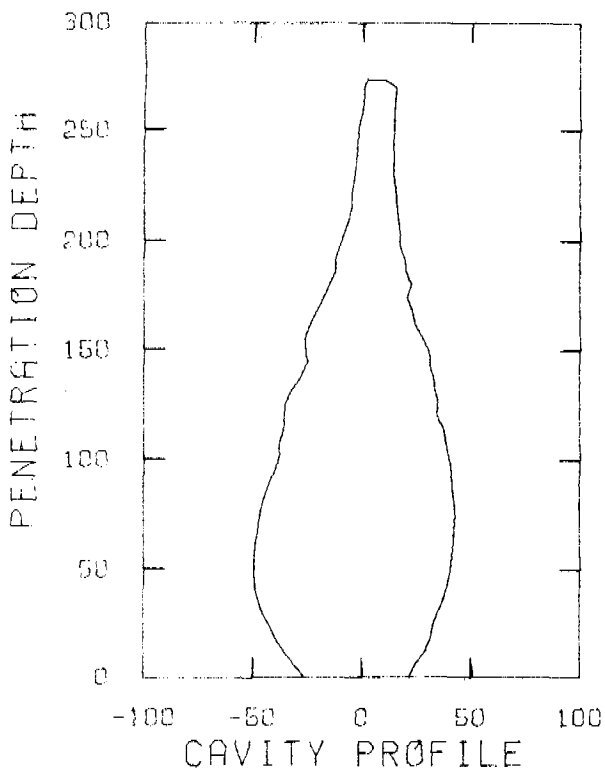
PROJECTILE DIAMETER (CM) - 1.092

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
11	121	121
35	211	211
65	224	224
92	201	202
119	221	221

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	23
6	28
12	32
18	35
24	37
30	40
35	42
42	44
47	45
54	45
60	45
65	45
71	45
78	44
83	43
89	41
95	40
101	38
107	37
113	36
119	34
125	34
131	32
137	30
143	28
149	27
155	26
161	23
167	21
173	18
179	18
185	16
191	15
197	13
203	12
209	10
215	10
220	9
227	8
233	8
239	8
245	7
250	7
257	7
262	7
269	7
271	5
273	3



ROUND NUMBER -- 368

PROJECTILE MASS (GM) --15.552

PROJECTILE TYPE --HORNADY,JHP,44MAG

PROJECTILE VELOCITY (MPS) --379.48

PROJECTILE DIAMETER (CM) -- 10.846

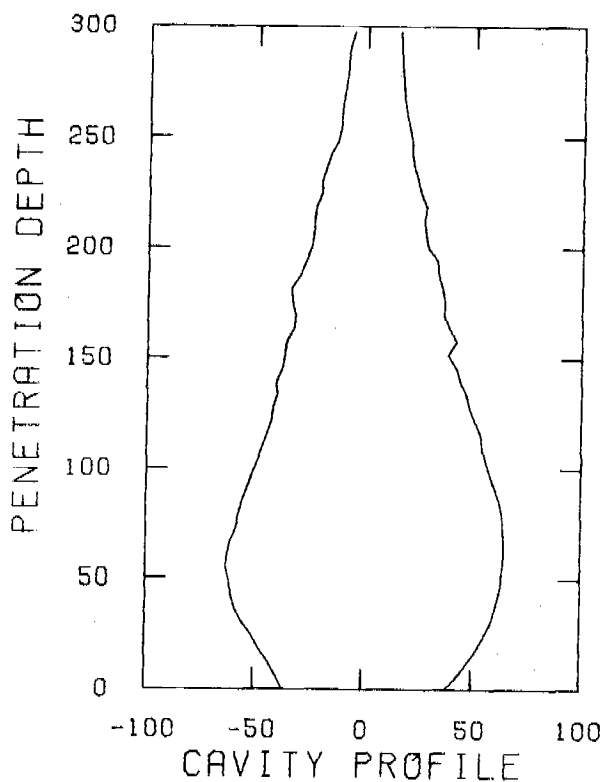
PROJECTILE DEFORMATION

I CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-5	134	134
20	387	387
52	255	261
84	222	229
114	231	233
155	254	255
173	201	207

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
---	------------------------------	----------------------

I	0	37
I	6	41
I	12	45
I	18	50
I	24	53
I	30	57
I	36	59
I	42	61
I	48	62
I	54	63
I	60	63
I	66	62
I	72	61
I	78	60
I	85	59
I	91	56
I	97	54
I	103	52
I	109	50
I	115	49
I	121	46
I	127	45
I	133	43
I	139	42
I	145	39
I	151	37
I	157	38
I	163	35
I	169	34
I	175	35
I	182	34
I	187	31
I	194	30
I	200	26
I	206	25
I	212	25
I	218	25
I	224	22
I	230	21
I	236	20
I	242	18
I	248	17
I	254	15
I	260	14
I	266	14
I	272	13
I	278	12
I	285	12



ROUND NUMBER 368 CONTINUED

1	290	11
1	297	10
1	303	10
1	309	10
1	314	9
1	321	8
1	326	6
1		

ROUND NUMBER -- 285

PROJECTILE MASS (GM) -- 5.830

PROJECTILE TYPE --KTW, MP, 9MM

PROJECTILE VELOCITY (MPS) --463.30

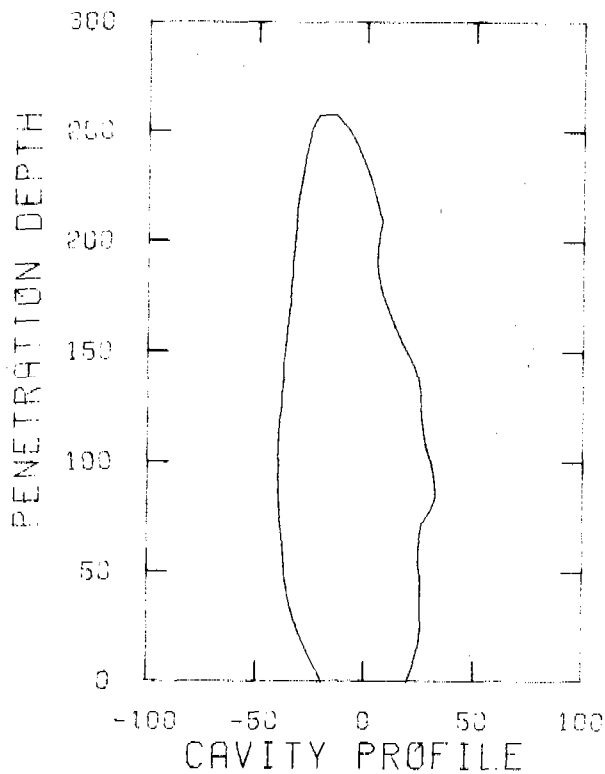
PROJECTILE DIAMETER (CM) -- 9.042

PROJECTILE DEFORMATION

PENETRATION PRESENTED CROSS-SECT
DISTANCE (MM) AREA (MM**2) AREA (MM**2)

I CAVITY MEASUREMENTS

I PENETRATION CAVITY
I DISTANCE (MM) RADIUS (MM)



I	0	19
I	6	22
I	11	24
I	18	26
I	23	28
I	29	29
I	35	30
I	41	30
I	47	31
I	53	30
I	59	31
I	65	31
I	71	32
I	77	34
I	83	36
I	89	36
I	95	35
I	101	34
I	107	33
I	113	33
I	119	32
I	125	32
I	131	31
I	137	31
I	143	29
I	149	28
I	155	26
I	161	24
I	167	22
I	173	21
I	179	20
I	185	19
I	191	19
I	196	19
I	203	19
I	209	17
I	215	18
I	220	17
I	226	15
I	233	14
I	239	12
I	244	10
I	251	8
I	254	6
I	257	6

ROUND NUMBER -- 284

PROJECTILE MASS (GM) -- 5.850

PROJECTILE TYPE --KTW, MP, .38SPEC

PROJECTILE VELOCITY (MPS) --450.00

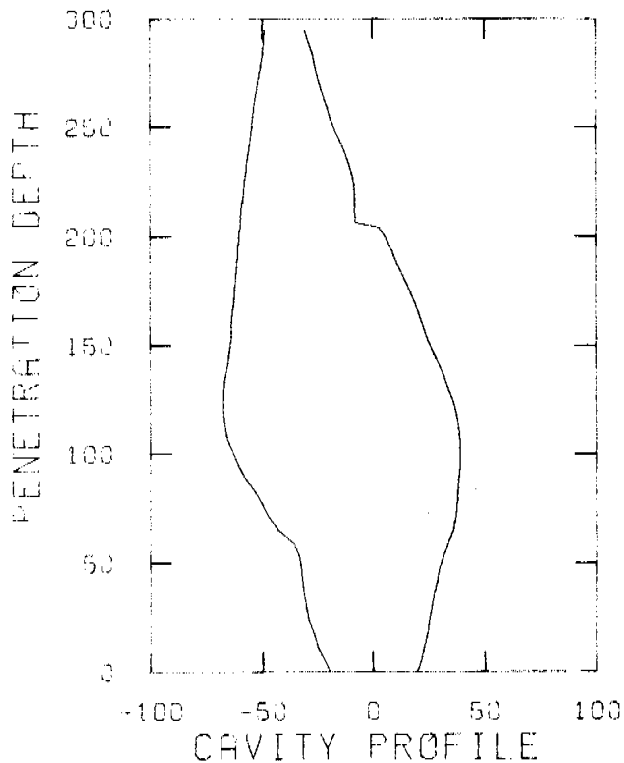
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

I CAVITY MEASUREMENTS

PENETRATION PRESENTED CROSS-SECT
DISTANCE (MM) AREA (MM**2) AREA (MM**2)

I PENETRATION CAVITY
I DISTANCE (MM) RADIUS(MM)



I	0	19
I	5	21
I	11	24
I	17	25
I	23	27
I	29	28
I	35	29
I	41	30
I	47	31
I	53	32
I	58	34
I	64	39
I	70	42
I	76	44
I	82	45
I	88	46
I	94	50
I	100	51
I	106	52
I	112	52
I	117	52
I	123	51
I	129	50
I	135	49
I	141	47
I	147	45
I	153	44
I	159	43
I	165	41
I	171	40
I	176	39
I	182	37
I	188	35
I	194	34
I	200	32
I	206	31
I	212	26
I	218	25
I	223	24
I	229	23
I	235	22
I	241	21
I	247	19
I	253	17
I	259	16
I	265	14
I	271	13
I	276	12

ROUND NUMBER 284 CONTINUED

I	282	11
I	288	10
I	294	9
I	300	8
I	306	8
I	312	7
I	318	6
I		

ROUND NUMBER -- 253

PROJECTILE MASS (GM) -- 6.830

PROJECTILE TYPE --KTK, MP, .357 MAG

PROJECTILE VELOCITY (FPS) --634.90

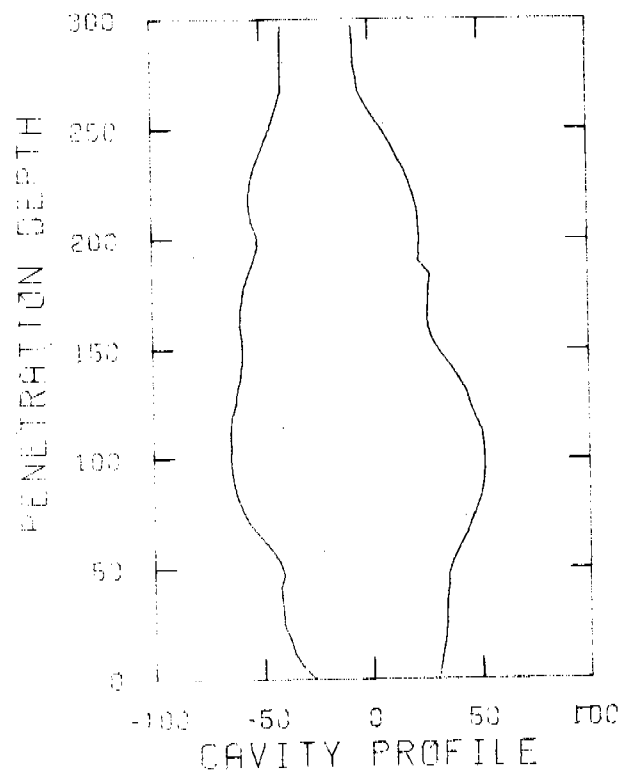
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

I CAVITY MEASUREMENTS

PENETRATION PRESENTED CROSS-SECT
DISTANCE (MM) AREA (MM**2) AREA (MM**2)

I PENETRATION CAVITY
I DISTANCE (MM) RADIUS(MM)



I	0	28
I	5	31
I	11	34
I	17	35
I	23	37
I	29	37
I	35	37
I	41	38
I	47	37
I	53	39
I	59	43
I	65	47
I	71	51
I	77	53
I	82	56
I	88	57
I	94	58
I	100	58
I	106	58
I	112	57
I	118	55
I	124	53
I	130	52
I	136	50
I	142	47
I	148	45
I	154	43
I	160	43
I	166	43
I	172	42
I	178	42
I	183	41
I	189	37
I	195	37
I	201	37
I	207	38
I	213	38
I	219	37
I	225	35
I	231	34
I	237	31
I	243	28
I	249	25
I	255	22
I	261	19
I	266	17
I	273	17
I	278	16

ROUND NUMBER 283 CONTINUED

I	284	16
I	297	16
I	296	16
I	302	16
I	308	15
I	311	15
I	321	14
I		

ROUND NUMBER -- 274

PROJECTILE MASS (GM) -- 4.147

PROJECTILE TYPE --MBA, SS, .38 S&W

PROJECTILE VELOCITY (MPS) --245.97

PROJECTILE DIAMETER (CM) -- 9.068

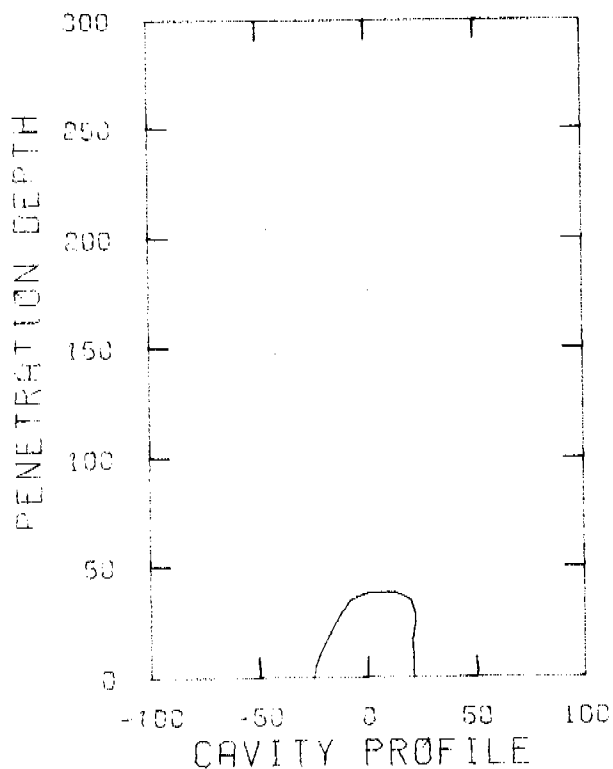
PROJECTILE DEFORMATION

PENETRATION PRESENTED CROSS-SECT
DISTANCE (MM) AREA (MM**2) AREA (MM**2)

CAVITY MEASUREMENTS

PENETRATION CAVITY
DISTANCE (MM) RADIUS(MM)

0	22
5	22
11	20
17	19
23	18
29	16
34	13
36	11
37	8
38	5



ROUND NUMBER -- 272

PROJECTILE MASS (GM) -- 4.147

PROJECTILE TYPE --MBA, 99, .38 SPEC

PROJECTILE VELOCITY (MPS) --306.23

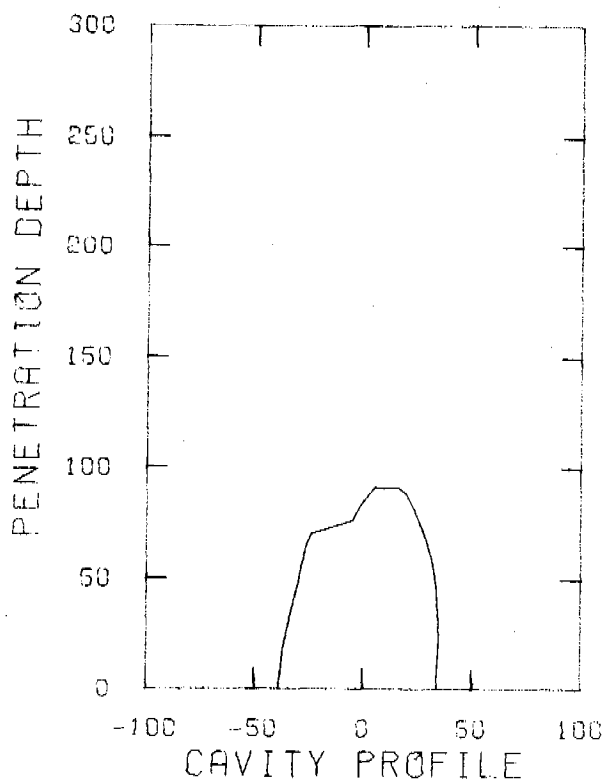
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

I CAVITY MEASUREMENTS

PENETRATION PRESENTED CROSS-SECT
DISTANCE (MM) AREA (MM**2) AREA (MM**2)

I PENETRATION CAVITY
I DISTANCE (MM) RADIUS(MM)



I	0	36
I	5	36
I	11	35
I	17	35
I	23	35
I	29	34
I	35	33
I	41	32
I	47	31
I	53	30
I	59	29
I	65	27
I	71	25
I	76	15
I	82	12
I	88	8
I	91	5

ROUND NUMBER -- 273

PROJECTILE MASS (GM) -- 4.147

PROJECTILE TYPE --MBA, SS, .38 SPEC

PROJECTILE VELOCITY (MPS) --320.65

PROJECTILE DIAMETER (CM) -- 9.068

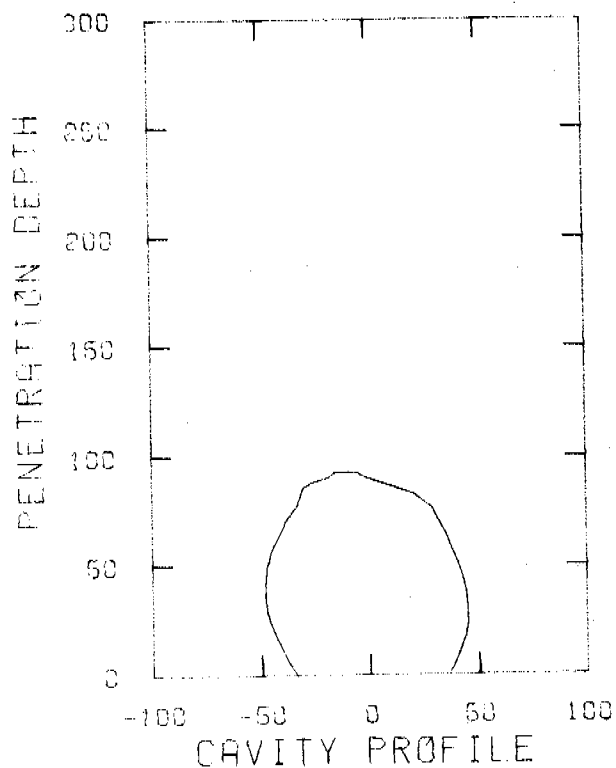
PROJECTILE DEFORMATION

I CAVITY MEASUREMENTS

PENETRATION PRESENTED CROSS-SECT
DISTANCE (MM) AREA (MM**2) AREA (MM**2)

I PENETRATION CAVITY
I DISTANCE (MM) RADIUS(MM)

I	0	34
I	5	39
I	11	41
I	17	43
I	23	45
I	29	46
I	35	46
I	41	45
I	47	44
I	53	42
I	58	40
I	64	37
I	70	34
I	76	31
I	82	26
I	85	20
I	88	14
I	90	8
I	93	4
I		



ROUND NUMBER -- 883

PROJECTILE MASS (GM) -- 8.035

PROJECTILE TYPE --REM,FJ,9MM

PROJECTILE VELOCITY (MPS) --354.48

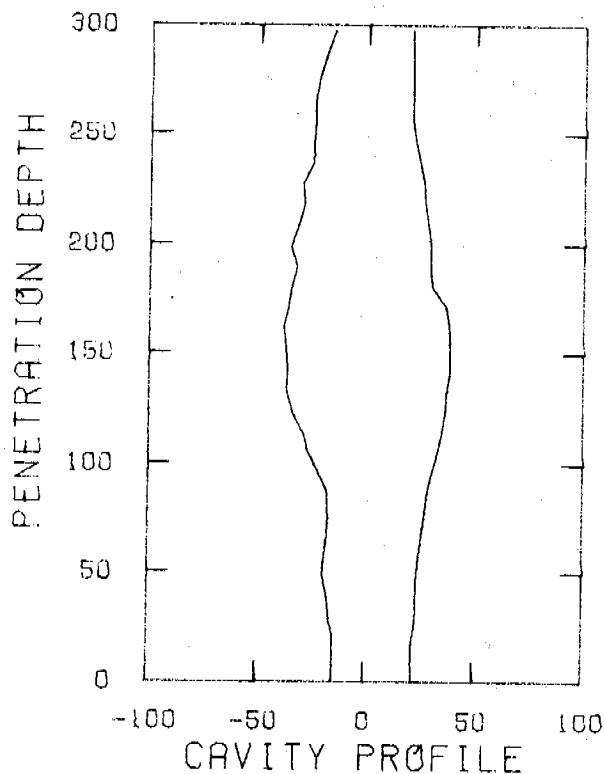
PROJECTILE DIAMETER (CM) -- 8.992

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-8	58	61
21	71	154
60	79	130
93	152	173
136	160	163
188	134	156
208	154	153

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	18
I 9	17
I 18	18
I 28	20
I 37	20
I 47	21
I 56	21
I 66	21
I 75	22
I 85	22
I 94	25
I 104	29
I 113	32
I 123	35
I 132	36
I 141	37
I 151	38
I 161	38
I 170	36
I 179	32
I 189	30
I 199	32
I 208	29
I 217	27
I 227	27
I 236	24
I 246	23
I 256	22
I 265	22
I 274	21
I 284	19
I 293	18
I 303	16
I 312	15
I 322	13



ROUND NUMBER -- 882

PROJECTILE MASS (GM) -- 8.035

PROJECTILE TYPE --REM,FJ,9MM

PROJECTILE VELOCITY (MPS) --371.25

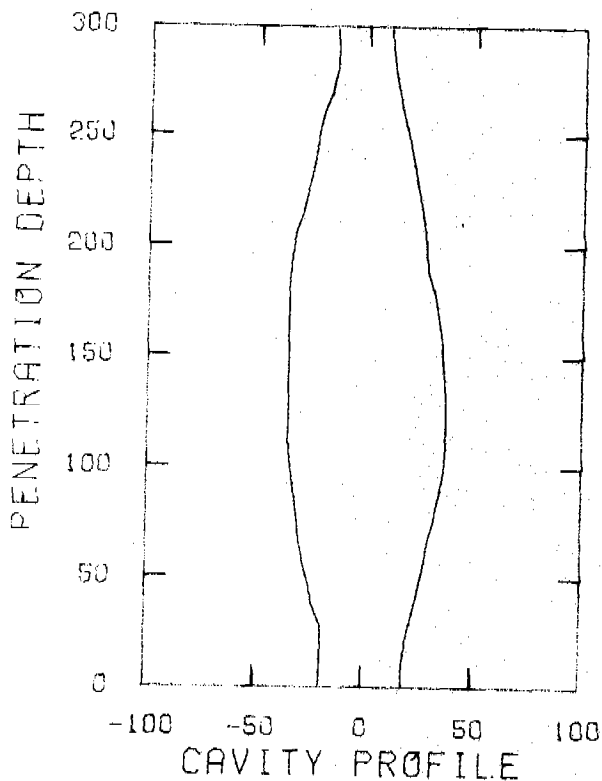
PROJECTILE DIAMETER (CM) -- 8.992

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	88	131
24	110	178
62	142	151
97	176	176
133	85	85
179	110	111
200	92	101

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	19
I 9	19
I 18	19
I 27	20
I 37	23
I 46	25
I 56	28
I 65	29
I 74	31
I 83	33
I 93	34
I 102	36
I 111	36
I 121	36
I 130	36
I 139	36
I 149	35
I 158	35
I 168	34
I 177	33
I 186	31
I 195	30
I 205	29
I 214	27
I 223	25
I 233	23
I 242	21
I 251	19
I 261	17
I 270	14
I 280	13
I 289	12
I 298	12
I 308	13



ROUND NUMBER -- 851

PROJECTILE MASS (GM) -- 8.035

PROJECTILE TYPE --RFM,FJ,9MM

PROJECTILE VELOCITY (MPS) --407.21

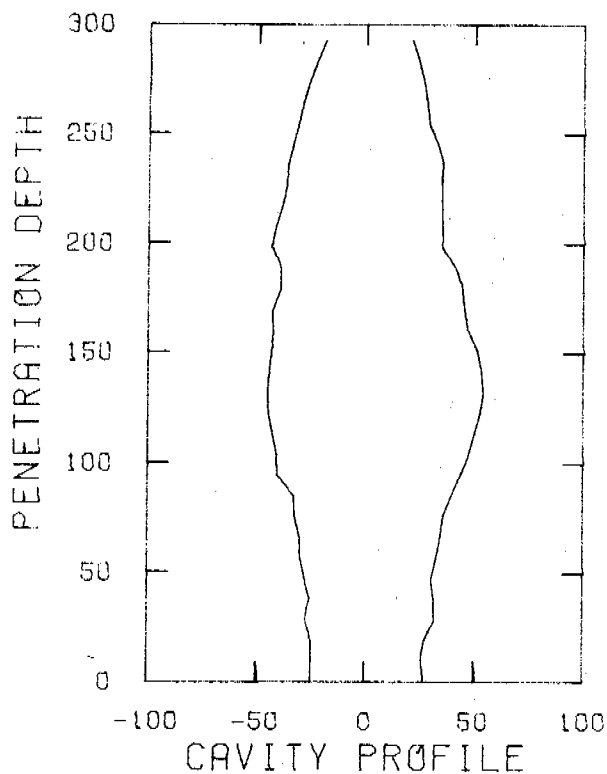
PROJECTILE DIAMETER (CM) -- 8.992

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	76	169
30	85	139
75	137	160
111	159	159
153	110	137
205	119	124
228	138	162

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	23
9	25
18	26
23	29
37	28
47	28
56	31
65	32
75	34
84	36
94	41
103	44
112	46
122	48
131	49
141	48
150	47
160	44
169	44
179	41
188	39
198	39
207	38
216	36
226	35
235	35
245	35
254	29
264	28
273	26
283	23
292	19
301	16
311	10



ROUND NUMBER -- 880

PROJECTILE MASS (GM) -- 8.035

PROJECTILE TYPE --REM,FJ,9MM

PROJECTILE VELOCITY (MPS) --424.59

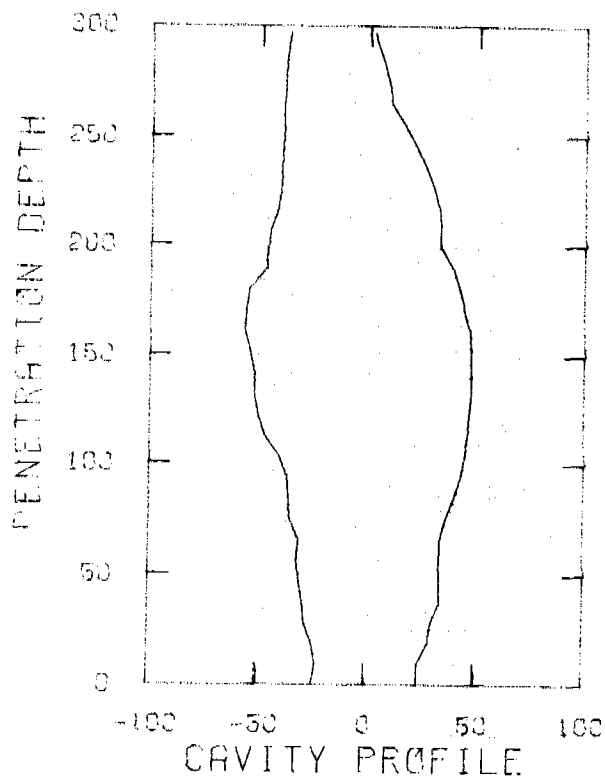
PROJECTILE DIAMETER (CM) -- 8.992

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	64	65
31	63	118
78	73	106
116	84	84
160	99	118
213	202	204
235	194	195

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	24
I 9	23
I 18	26
I 28	29
I 37	31
I 47	32
I 56	33
I 66	32
I 75	36
I 85	38
I 94	40
I 103	43
I 113	46
I 122	48
I 132	50
I 141	50
I 151	51
I 160	52
I 170	50
I 179	48
I 189	43
I 198	39
I 208	38
I 217	36
I 226	34
I 236	32
I 245	30
I 255	27
I 264	24
I 274	23
I 283	22
I 293	19
I 302	17
I 312	15



ROUND NUMBER -- 879

PROJECTILE MASS (GM) -- 7.452

PROJECTILE TYPE --REM,JHP,9MM

PROJECTILE VELOCITY (MPS) --260.91

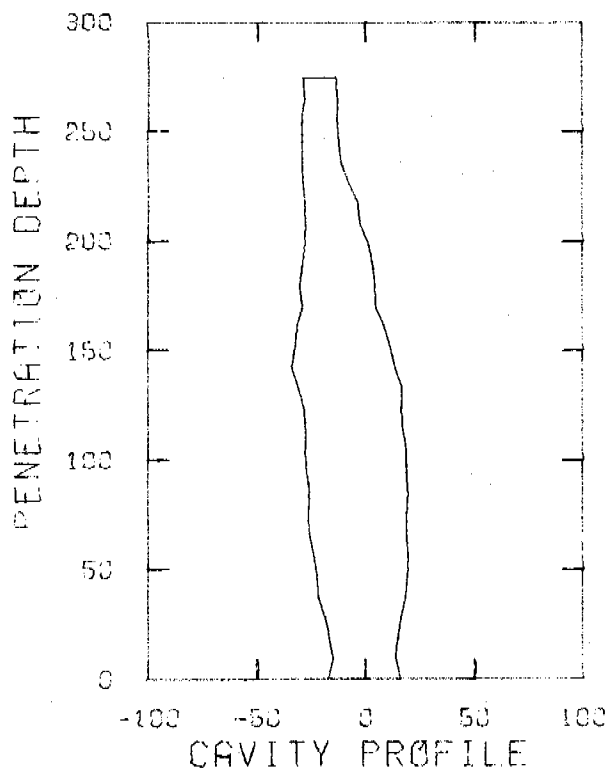
PROJECTILE DIAMETER (CM) -- 0.992

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	92	165
20	98	141
43	139	162
78	152	157
95	214	231
151	140	161
189	98	103

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	16
9	14
18	15
28	17
37	20
47	23
56	21
66	22
75	22
84	22
94	23
104	23
113	22
122	22
132	23
141	23
151	21
160	19
170	16
179	16
189	15
198	14
208	12
217	11
226	10
236	8
245	8
255	7
264	7
274	7



ROUND NUMBER -- 878

PROJECTILE MASS (GN) -- 7.452

PROJECTILE TYPE --REN,JHP,9MM

PROJECTILE VELOCITY (MPS) --308.46

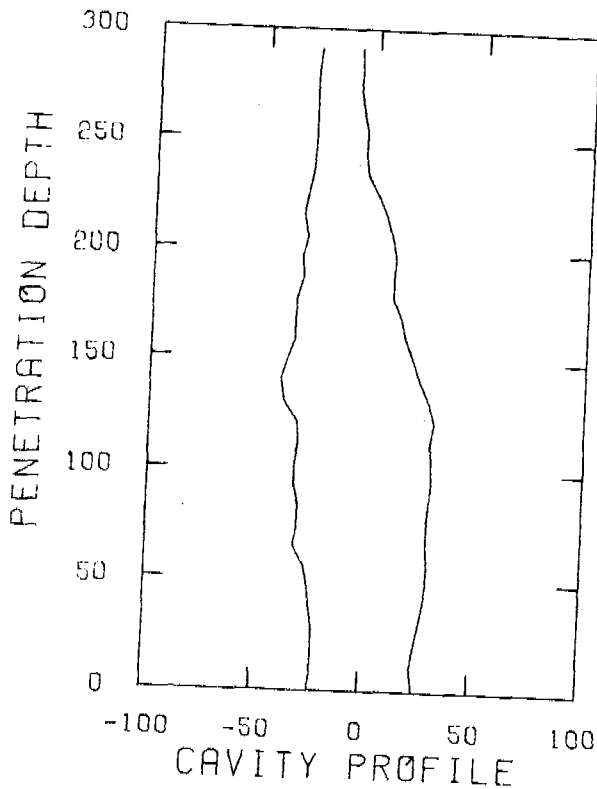
PROJECTILE DIAMETER (CM) -- 8.992

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
2	86	174
28	88	149
54	169	179
96	155	157
117	161	168
135	152	169
150	153	172

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	24
9	22
18	23
28	24
37	25
44	27
56	28
65	30
74	29
84	30
93	31
103	31
112	30
121	31
131	33
140	32
149	28
159	25
168	24
178	22
187	20
197	21
206	19
215	18
225	15
234	12
244	11
253	11
262	10
272	9
281	9
290	9
300	4



ROUND NUMBER -- 877

PROJECTILE MASS (GK) -- 7.452

PROJECTILE TYPE --REN,JHP,9MM

PROJECTILE VELOCITY (MPS) --359.66

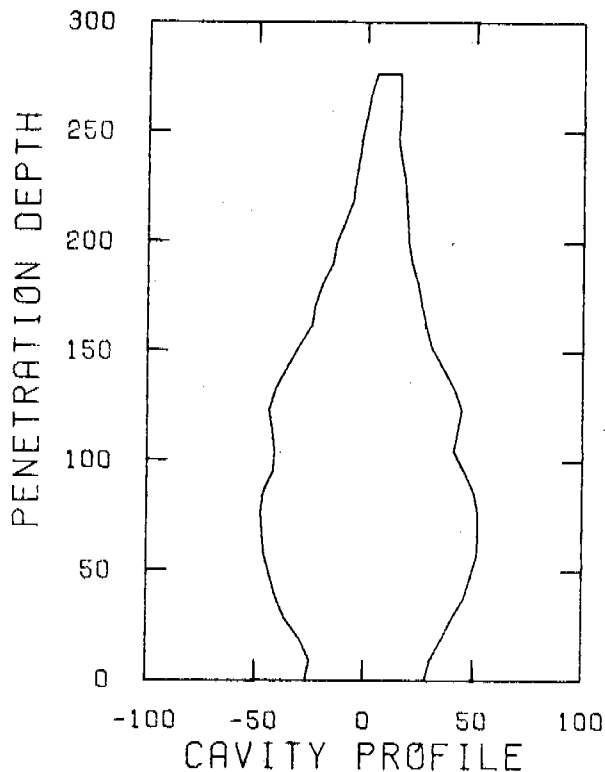
PROJECTILE DIAMETER (CK) -- 8.992

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM ²)	CROSS-SECT AREA (MM ²)
6	69	145
33	150	151
58	131	132
98	131	143
113	116	118
152	150	153
161	126	128

I CAVITY MEASUREMENTS

I	I	I
I	PENETRATION	CAVITY
I	DISTANCE (MM)	RADIUS(MM)
I	0	27
I	9	27
I	18	32
I	28	38
I	37	43
I	47	46
I	57	48
I	66	49
I	76	50
I	85	48
I	95	43
I	104	41
I	114	42
I	123	44
I	133	40
I	142	35
I	152	30
I	163	25
I	171	24
I	180	21
I	190	17
I	200	16
I	209	14
I	218	12
I	228	11
I	238	9
I	247	8
I	257	7
I	266	6
I	276	5



ROUND NUMBER -- 876

PROJECTILE MASS (GM) -- 7.452

PROJECTILE TYPE --REM,JHP,9MM

PROJECTILE VELOCITY (MPS) --384.66

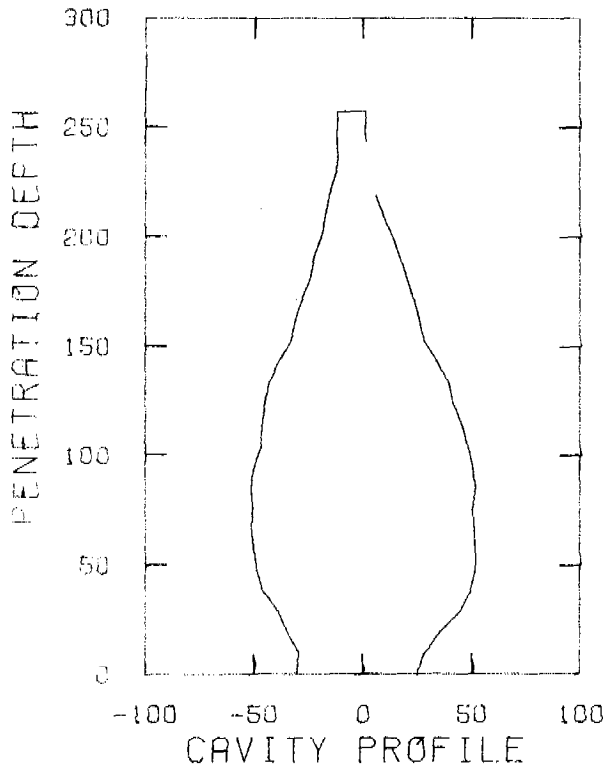
PROJECTILE DIAMETER (CM) -- 8.992

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	27
9	28
19	35
28	41
37	47
47	50
57	51
66	51
76	50
85	51
95	50
104	47
114	45
123	43
133	41
142	36
152	30
161	28
171	25
180	22
190	19
199	16
209	13
218	10
228	7
238	6
247	6
257	6



ROUND NUMBER -- 875

PROJECTILE MASS (GM) -- 7.452

PROJECTILE TYPE --REM,JHP,9MM

PROJECTILE VELOCITY (MPS) --391.97

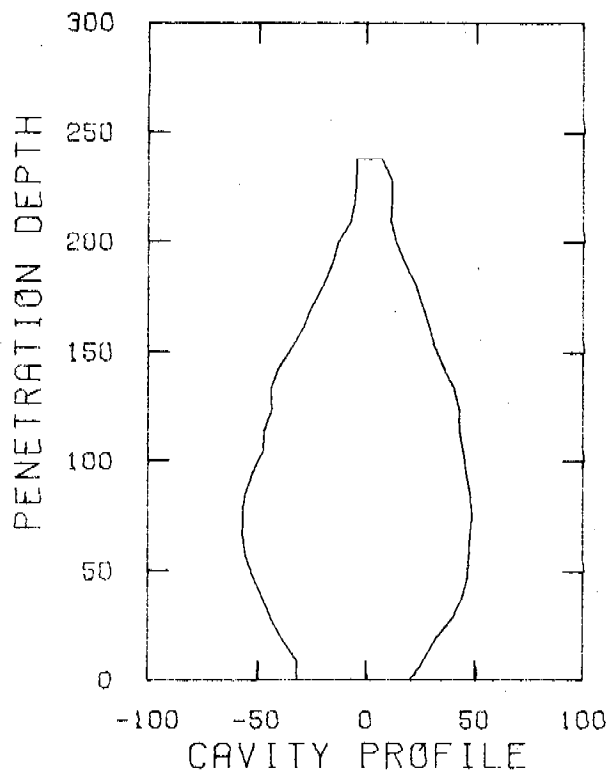
PROJECTILE DIAMETER (CM) -- 0.992

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
7	151	151
36	169	169
41	150	150
98	198	200
127	165	165
149	194	195
157	170	170

1 CAVITY MEASUREMENTS

1 PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
1 0	26
1 9	29
1 19	35
1 28	42
1 38	46
1 47	49
1 57	51
1 66	52
1 76	52
1 85	51
1 95	48
1 104	45
1 114	44
1 123	42
1 133	41
1 142	37
1 152	32
1 161	28
1 171	24
1 180	20
1 190	16
1 200	12
1 209	8
1 218	8
1 228	7
1 238	5
1	



ROUND NUMBER -- 874

PROJECTILE MASS (G) -- 7.452

PROJECTILE TYPE --REN,JHP,9MM

PROJECTILE VELOCITY (MPS) --431.60

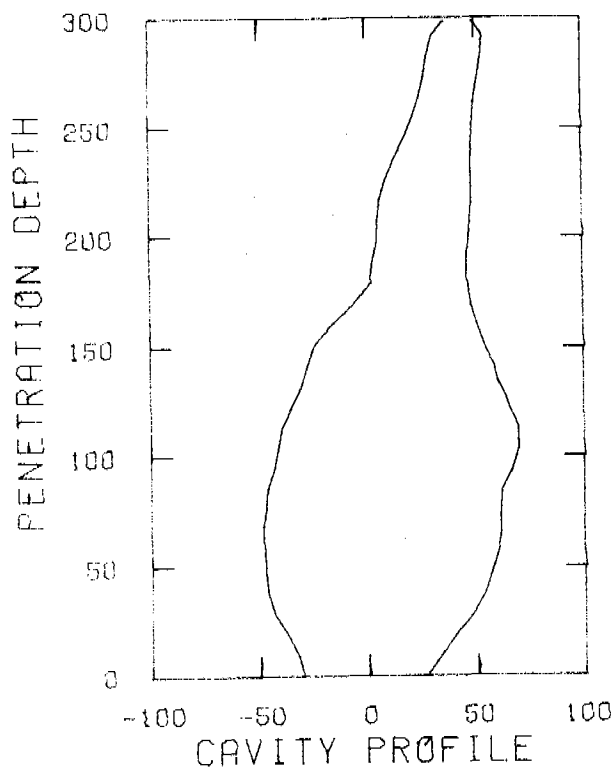
PROJECTILE DIAMETER (CM) -- 0.992

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	68	68
29	138	140
63	163	164
96	158	153
126	133	137
162	127	128
179	218	242

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	28
9	33
19	39
28	46
37	50
47	52
56	54
65	55
75	54
84	54
94	55
103	55
113	54
122	50
132	45
142	42
150	39
160	33
169	26
179	22
188	21
197	21
207	21
216	21
226	19
235	17
245	15
254	13
263	12
273	12
283	12
292	11
301	3



ROUND NUMBER -- 861

PROJECTILE MASS (GM) -- 6.156

PROJECTILE TYPE --REM,JHP,30SP

PROJECTILE VELOCITY (MPS) --243.54

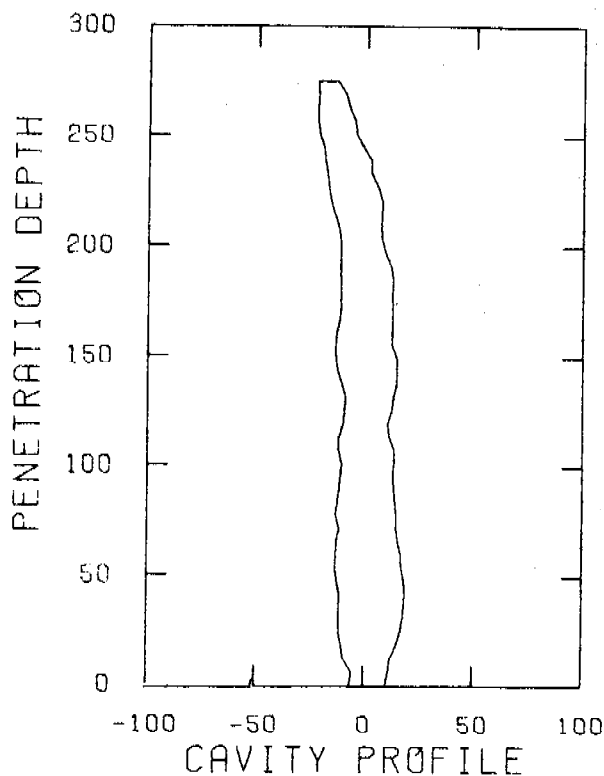
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM ²)	CROSS-SECT AREA (MM ²)
6	68	68
37	63	63
65	101	119
90	68	133
112	55	61
135	66	140
170	60	118

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	8
6	8
12	10
18	12
24	14
29	14
35	14
41	15
47	15
53	15
59	14
65	14
71	13
77	13
83	13
89	12
95	12
101	11
107	12
113	11
119	10
125	10
131	10
137	12
143	13
149	14
155	12
161	12
167	12
173	11
179	11
185	11
190	11
197	10
203	9
209	9
215	10
220	11
227	11
233	10
239	10
245	9
251	8
256	8
263	7
268	6
274	4



ROUND NUMBER -- 862

PROJECTILE MASS (GM) -- 6.156

PROJECTILE TYPE --REM,JHP,30SP

PROJECTILE VELOCITY (MPS) --259.69

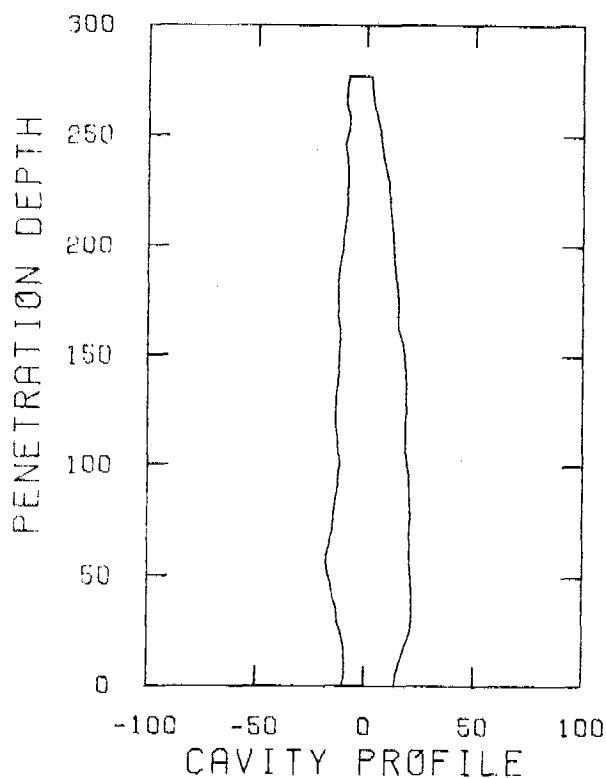
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
8	54	54
41	67	69
72	65	151
97	66	124
121	96	124
143	82	103
177	123	129

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	12
5	11
12	12
18	13
24	15
30	17
35	17
41	18
48	18
54	19
59	19
66	18
72	17
78	17
84	17
90	16
96	16
102	15
108	15
114	15
120	16
126	16
132	16
138	15
144	15
150	15
156	14
162	13
168	13
174	13
180	13
186	13
192	12
198	11
204	11
210	10
216	9
222	9
228	9
235	8
240	8
246	8
253	7
259	6
265	6
271	5
277	5



ROUND NUMBER -- 863

PROJECTILE MASS (GM) -- 6.156

PROJECTILE TYPE --REM,JHP,38SP

PROJECTILE VELOCITY (MPS) --298.09

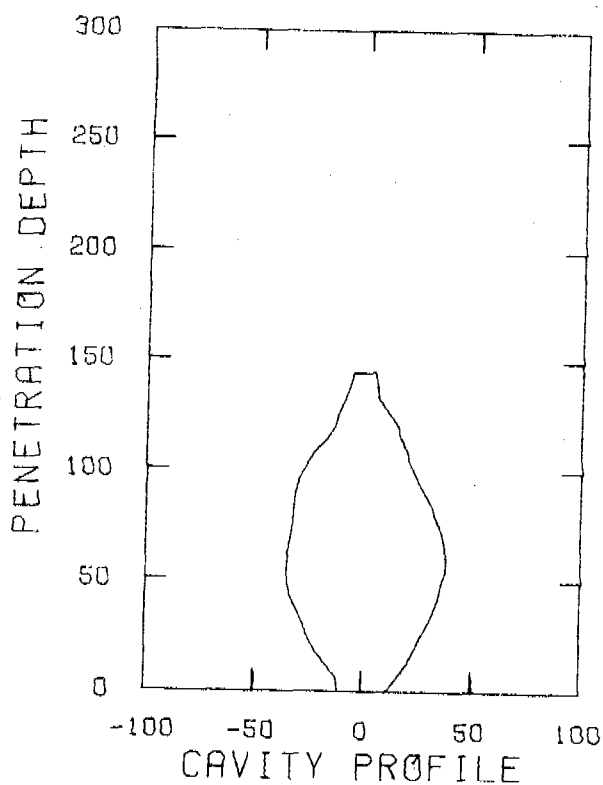
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
11	139	140
40	155	155
62	129	132
78	175	176
89	178	179
101	178	181
112	141	144

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	13
6	14
11	18
18	22
24	26
30	28
36	31
42	34
48	35
54	36
60	36
66	35
72	34
78	32
84	31
90	29
96	26
102	23
108	21
114	16
120	14
126	11
132	7
138	5
144	4



ROUND NUMBER — 864

PROJECTILE MASS (GM) — 6.156

PROJECTILE TYPE --REN,JHP,30SP

PROJECTILE VELOCITY (MPS) —425.50

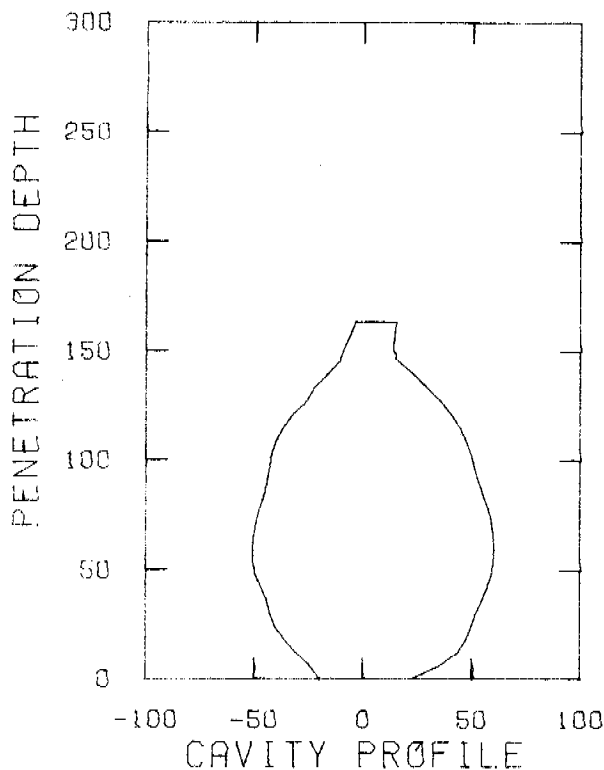
PROJECTILE DIAMETER (CM) — 9.060

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-4	98	98
22	215	220
52	145	145
72	152	153
78	124	124
110	131	132
116	141	142

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	21
I	6	30
I	12	37
I	18	41
I	23	45
I	30	47
I	36	49
I	42	52
I	48	54
I	54	55
I	60	55
I	66	55
I	72	54
I	78	52
I	84	50
I	90	48
I	96	46
I	102	45
I	109	43
I	114	40
I	120	36
I	126	30
I	133	25
I	139	19
I	145	13
I	151	10
I	157	9
I	163	9
I		



ROUND NUMBER - 13

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -REM, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) -205.83

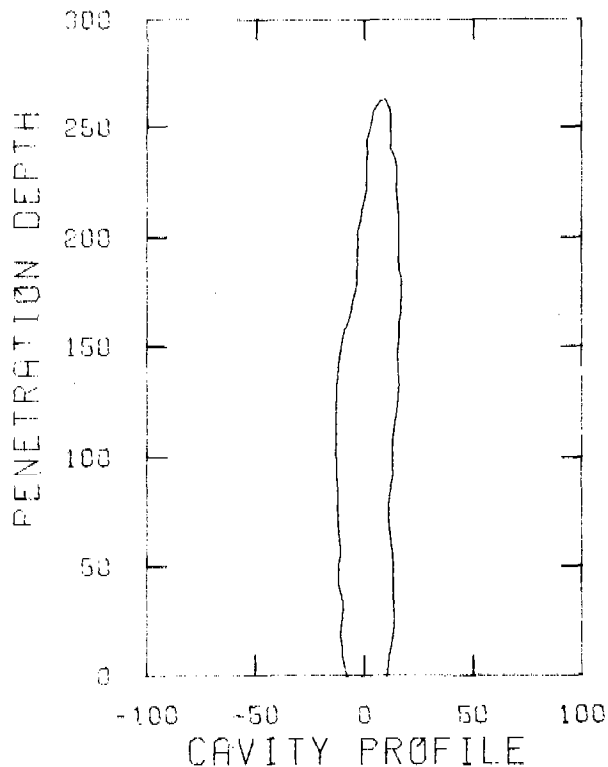
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	9
4	10
9	10
13	11
18	12
23	12
27	11
32	11
36	12
41	12
46	12
50	12
55	12
60	11
64	11
69	11
73	11
78	11
82	12
87	12
92	13
96	12
101	13
106	12
110	13
115	13
119	13
124	14
129	14
133	14
138	13
143	13
147	13
152	13
157	12
161	11
166	11
170	11
175	10
179	10
184	9
189	9
193	9
198	9
203	9
207	8
212	8
216	7



ROUND NUMBER 13 CONTINUED

I	221	6
I	226	6
I	230	6
I	235	6
I	239	5
I	244	5
I	249	4
I	253	4
I	258	3
I	263	1
I	0	0
I	0	0

ROUND NUMBER -- 860

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE -- REM, JHP, 30CAL

PROJECTILE VELOCITY (MPS) -- 283.06

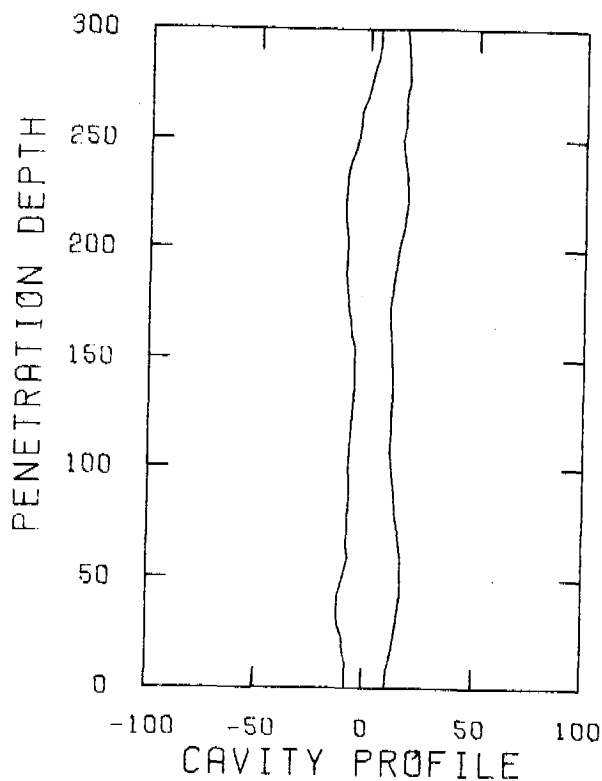
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM ²)	CROSS-SECT AREA (MM ²)
-8	46	46
11	51	51
30	52	52
49	56	56
75	61	61
115	71	142
133	98	158

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	9
5	9
12	9
17	11
23	11
30	13
35	13
42	14
48	13
53	12
59	12
65	12
71	11
77	10
83	10
89	10
95	9
101	9
107	9
113	9
119	9
125	9
131	8
137	8
143	8
149	8
155	8
161	9
167	9
173	9
179	10
185	10
191	11
197	11
203	12
209	13
215	13
221	14
227	13
233	13
239	12
245	10
251	10
257	10
263	10
269	8
275	8
281	8



ROUND NUMBER 860 CONTINUED

I	287	6
I	293	6
I	299	6
I	305	5
I	311	5
I	317	5

ROUND NUMBER -- 895

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --REM,JHP,357MAG

PROJECTILE VELOCITY (MPS) --230.43

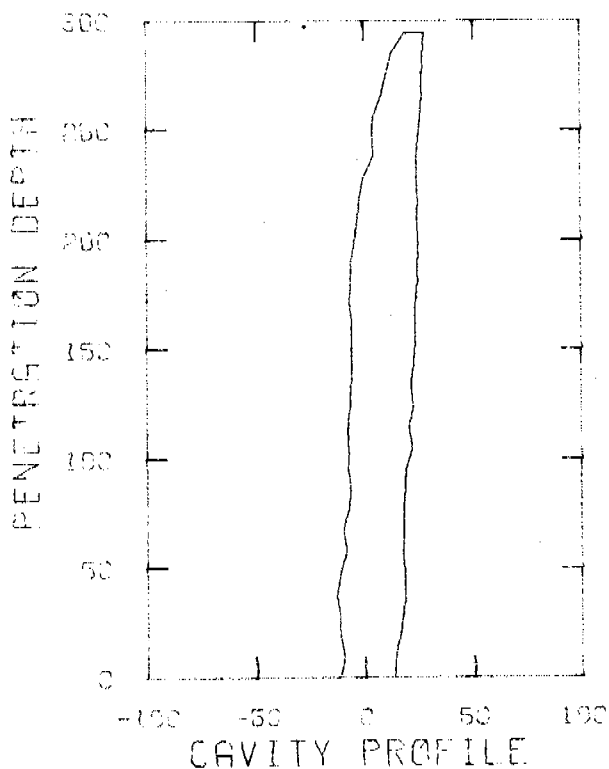
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	59	59
13	54	56
55	83	148
92	105	185
125	135	175
152	175	177
176	165	170

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	12
I 9	11
I 19	13
I 28	14
I 37	15
I 47	14
I 56	12
I 66	13
I 75	12
I 85	12
I 94	13
I 104	14
I 113	14
I 123	14
I 133	13
I 142	14
I 151	14
I 161	14
I 171	15
I 180	15
I 189	15
I 199	14
I 208	13
I 218	12
I 227	12
I 237	10
I 246	10
I 256	10
I 265	9
I 275	8
I 284	7
I 294	4



ROUND NUMBER - 12

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE - REM, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) - 241.07

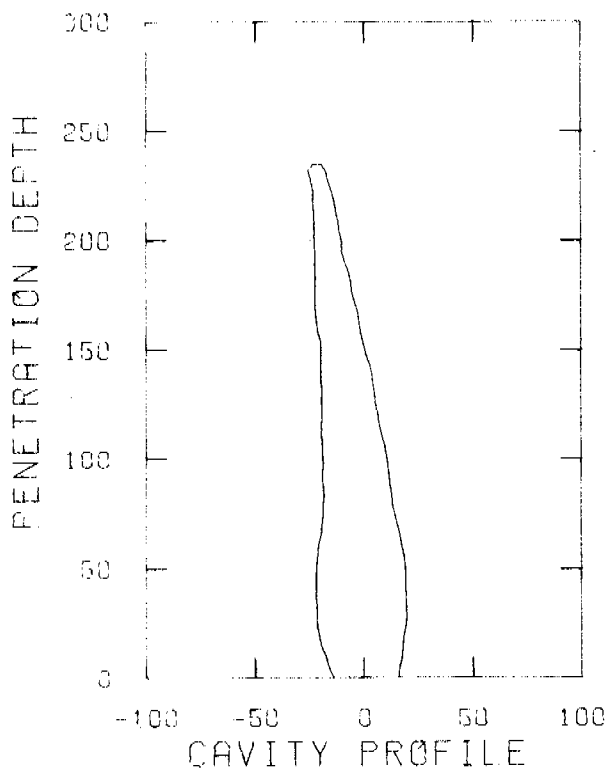
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	14
I	5	16
I	9	17
I	14	18
I	18	19
I	23	20
I	28	20
I	32	20
I	37	20
I	42	20
I	46	20
I	51	20
I	56	19
I	60	18
I	65	17
I	69	17
I	74	16
I	79	15
I	83	15
I	88	15
I	93	15
I	97	14
I	102	14
I	106	14
I	111	13
I	116	13
I	120	12
I	125	12
I	129	11
I	134	11
I	139	11
I	143	11
I	148	10
I	153	9
I	157	9
I	162	9
I	166	9
I	171	9
I	176	8
I	180	7
I	185	7
I	190	6
I	194	6
I	199	6
I	203	5
I	208	5
I	213	5
I	217	4



ROUND NUMBER 12 CONTINUED

I	222	4
I	227	3
I	231	4
I	234	1
I	0	0
I	0	0

ROUND NUMBER -- 865

PROJECTILE MASS (GM) -- 8.190

PROJECTILE TYPE --REN,JHP,30SP

PROJECTILE VELOCITY (MPS) --251.16

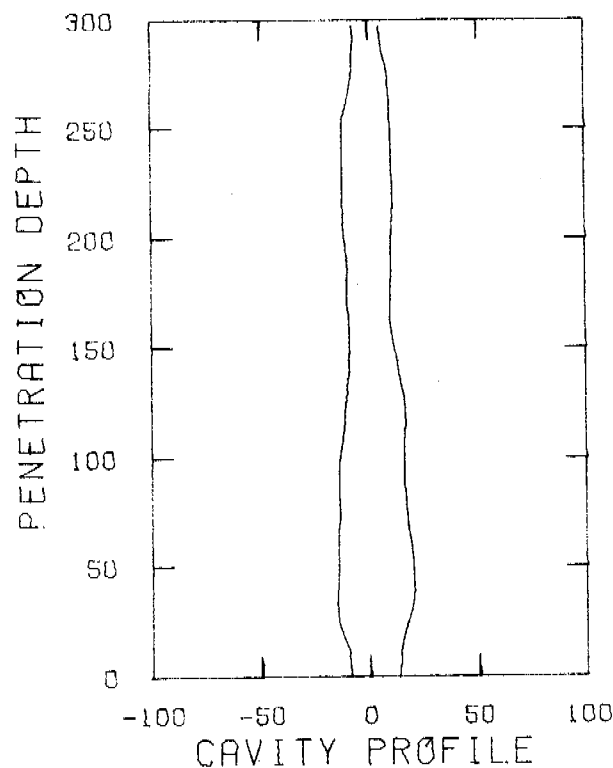
PROJECTILE DIAMETER (CM) -- 9.868

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-14	49	49
5	60	60
34	83	83
60	51	51
89	51	201
131	73	166
150	101	217

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	10
6	11
12	12
18	14
24	16
30	17
36	18
42	17
48	17
54	17
60	17
66	16
72	15
78	15
84	15
91	14
97	14
103	14
109	14
115	13
121	13
127	13
133	12
139	11
145	10
151	9
158	9
163	9
169	9
175	9
182	10
188	10
194	10
200	11
206	11
212	11
218	11
224	11
230	11
236	11
242	11
249	11
254	10
261	9
267	8
273	8
279	7
285	6



ROUND NUMBER 865 CONTINUED

I	291	5
I	297	5
I	303	5
I	309	5
I	315	5
I	321	5

ROUND NUMBER -- 866

PROJECTILE MASS (GM) -- 8.300

PROJECTILE TYPE --REN,JHP,38SP

PROJECTILE VELOCITY (MPS) --258.47

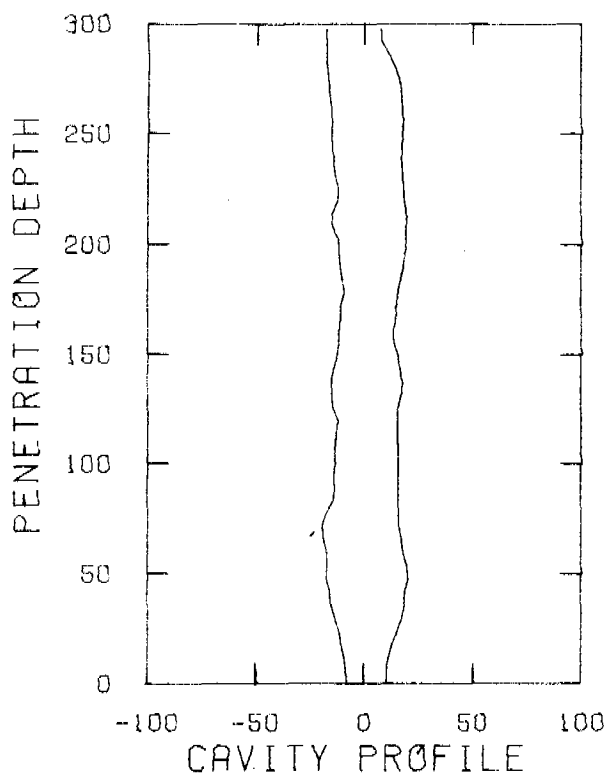
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-12	55	55
9	57	57
38	59	97
66	63	146
97	83	155
141	69	179
162	61	193

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	8
5	9
13	10
17	13
23	13
29	15
35	17
41	17
47	18
53	18
59	17
65	18
71	17
77	16
83	14
89	14
94	14
101	14
107	14
112	13
119	13
124	14
130	15
136	16
142	15
148	14
154	12
160	12
166	12
172	12
178	12
184	13
190	14
196	15
202	15
208	17
214	17
220	15
226	14
231	15
238	15
244	16
250	16
256	16
262	16
267	16
273	16
280	15



ROUND NUMBER 866 CONTINUED

1	285	14
1	291	12
1	297	12
1	303	11
1	309	10
1	315	9
1	321	7
1	327	7
1		

ROUND NUMBER - 11

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -REM, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) -263.88

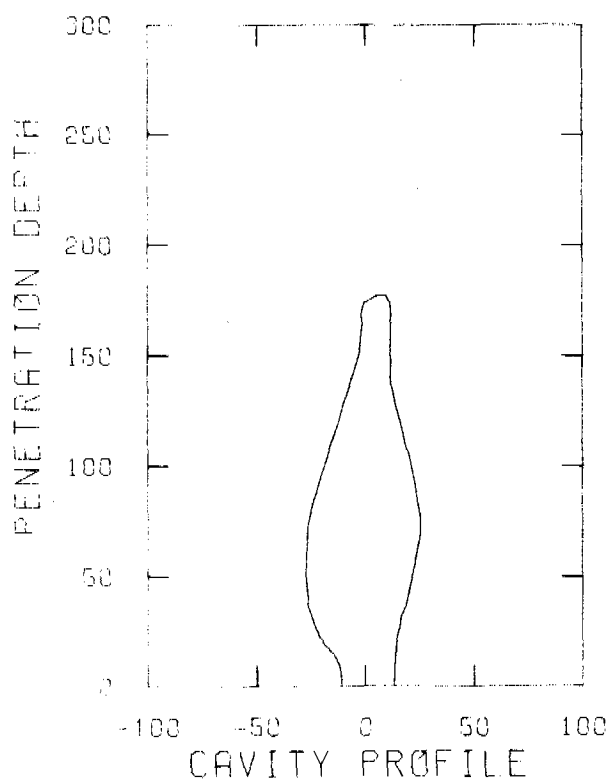
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	11
I	4	12
I	9	12
I	13	14
I	18	16
I	22	18
I	27	19
I	32	20
I	36	22
I	41	23
I	45	23
I	50	24
I	55	25
I	59	25
I	64	25
I	68	25
I	73	25
I	77	25
I	82	24
I	87	22
I	91	22
I	96	20
I	100	19
I	105	18
I	109	17
I	114	15
I	119	14
I	123	13
I	128	11
I	132	10
I	137	9
I	141	8
I	146	7
I	150	6
I	155	6
I	160	6
I	164	6
I	169	6
I	173	5
I	176	2
I	0	0
I	0	0



ROUND NUMBER -- 867

PROJECTILE ASS (GR) -- 8.100

PROJECTILE TYPE --REM,JHP,38SP

PROJECTILE VELOCITY (MPS) --268.83

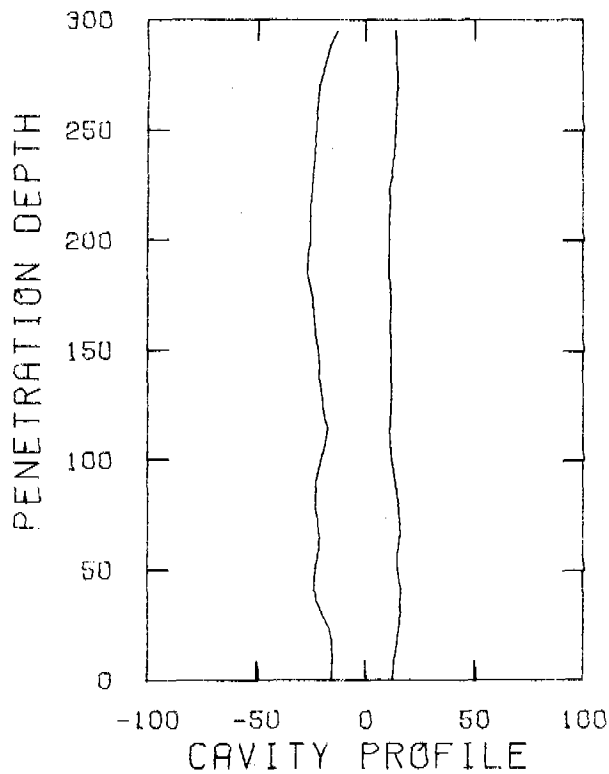
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-11	51	51
10	54	54
40	53	53
69	72	72
101	61	62
147	63	137
169	78	159

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	13
6	14
12	14
18	15
23	16
29	18
36	19
42	20
48	19
54	18
59	18
66	18
72	18
78	19
83	18
89	18
96	16
102	15
108	14
114	13
120	14
126	15
132	16
138	16
144	16
150	16
156	17
162	17
168	17
174	17
180	18
186	18
192	18
198	17
204	17
210	17
216	18
222	17
228	18
234	18
240	18
246	18
253	17
258	18
264	17
270	17
276	16
282	15



ROUND NUMBR 867 CONTINUED

I	288	15
I	294	13
I	300	11
I	306	10
I	312	9
I	319	7
I	325	6
I		

ROUND NUMBER -- 894

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --REM,JHP,357

PROJECTILE VELOCITY (MPS) --290.17

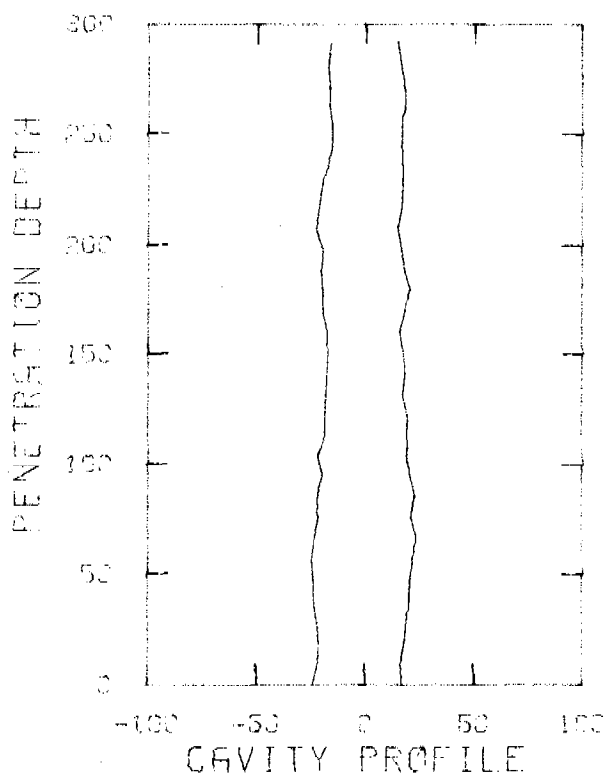
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-11	68	70
11	59	60
44	75	73
74	64	160
108	77	162
156	120	175
177	102	163

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	20
I 9	19
I 18	19
I 28	20
I 37	22
I 47	22
I 56	22
I 66	23
I 75	21
I 84	22
I 94	20
I 103	20
I 113	18
I 122	19
I 131	17
I 141	17
I 150	17
I 160	16
I 169	18
I 179	20
I 188	19
I 197	18
I 207	18
I 216	18
I 226	18
I 235	17
I 244	16
I 254	15
I 263	17
I 272	17
I 282	16
I 291	17
I 301	14
I 310	13
I 319	11



ROUND NUMBER = 10

PROJECTILE MASS (GM) = 8.100

PROJECTILE TYPE -REM, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) = 301.46

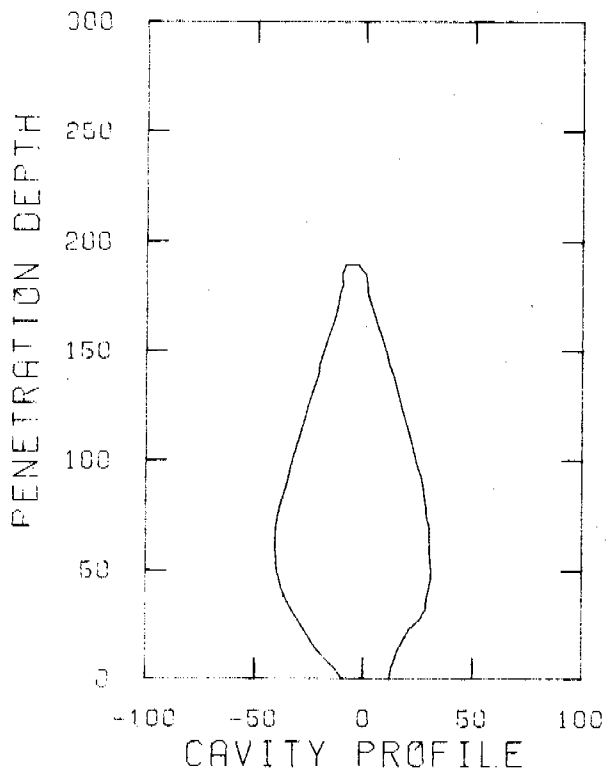
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-RECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	10
4	12
9	16
13	18
18	21
23	24
27	28
32	31
36	32
41	34
46	35
50	35
55	35
60	35
64	35
69	35
73	34
78	33
83	32
87	31
92	30
97	28
101	27
106	26
111	25
115	23
120	22
125	21
129	19
134	18
138	16
143	15
148	14
152	13
157	11
161	9
166	8
171	7
175	6
180	5
185	5
189	2



ROUND NUMBER = 9

PROJECTILE MASS (GM) = 8.100

PROJECTILE TYPE = REM, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) = 305.79

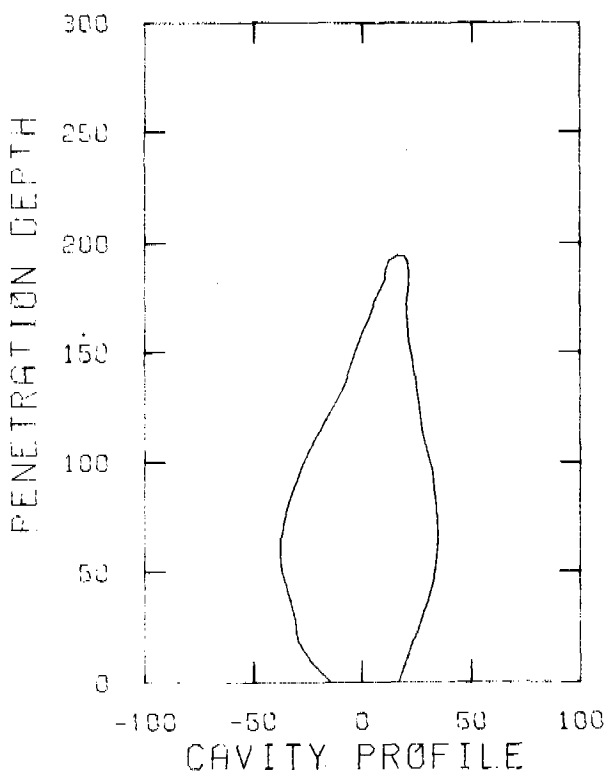
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	15
4	18
8	21
14	24
18	26
22	28
27	29
32	30
36	31
41	33
45	34
50	35
54	35
59	36
64	36
68	35
73	35
77	34
82	33
86	32
91	31
96	29
100	28
105	26
109	25
114	23
118	21
123	20
127	18
132	17
137	15
141	14
146	13
150	12
155	10
159	9
164	8
168	7
173	7
178	6
182	5
187	5
191	3
194	1
0	0



ROUND NUMBER -- 859

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --REM,JMP,30CAL

PROJECTILE VELOCITY (MPS) --311.20

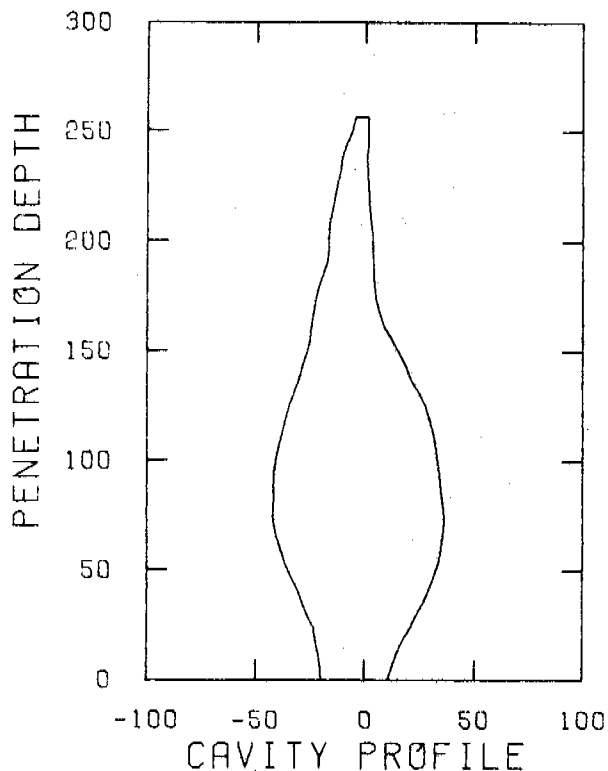
PROJECTILE DIAMETER (CM) -- 9.640

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
3	59	59
29	123	123
54	145	147
72	134	134
97	123	124
129	115	116
143	108	112

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	15
6	16
12	17
18	19
24	22
30	25
35	27
41	30
48	33
53	35
59	36
65	38
71	39
77	39
83	38
89	38
95	37
101	36
107	35
113	34
119	32
125	31
131	28
137	25
143	23
149	21
155	18
161	16
167	15
173	13
179	12
185	11
191	10
197	9
203	9
208	9
214	8
220	7
226	6
232	6
238	5
244	4
250	3
256	2



ROUND NUMBER -- 858

PROJECTILE MASS (GM) -- 8.700

PROJECTILE TYPE --REM,JHP,38CAL

PROJECTILE VELOCITY (MPS) --333.76

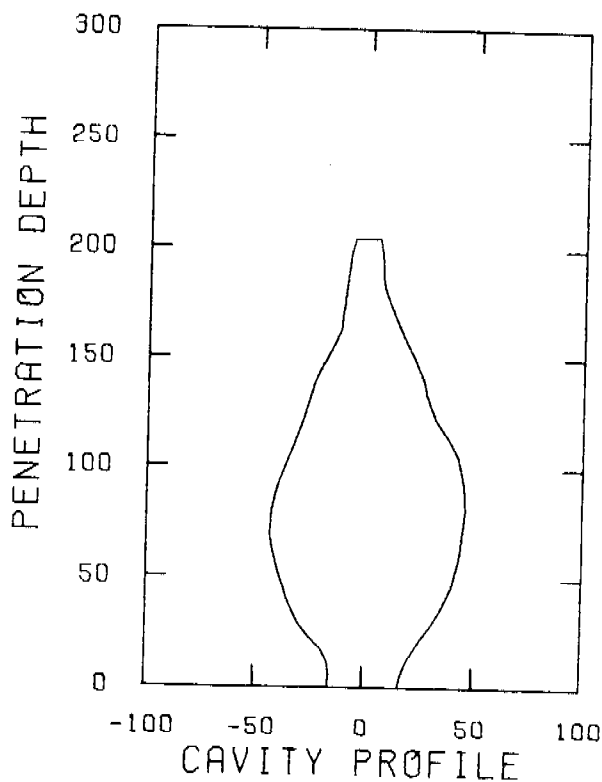
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-5	53	53
21	259	259
56	330	332
83	221	231
99	154	156
144	166	166
158	93	95

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	15
5	16
11	18
17	21
23	25
29	30
35	33
40	36
46	39
52	40
58	42
64	43
69	44
76	44
81	44
87	43
93	42
99	40
105	38
110	36
116	33
122	30
128	28
134	26
139	24
145	22
151	19
157	16
163	13
169	11
175	10
181	8
186	8
192	7
198	6
204	5



ROUND NUMBER -- 893

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --REM,JHP,357MAG

PROJECTILE VELOCITY (MPS) --345.95

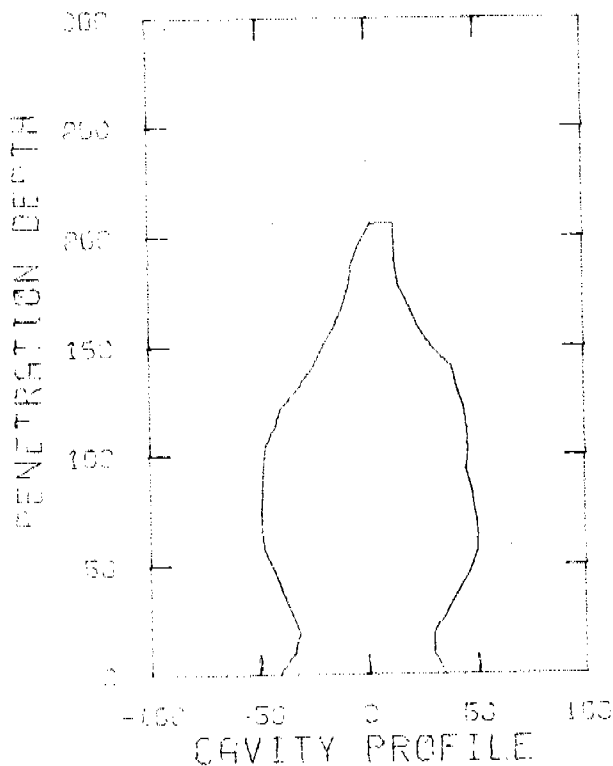
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	60	60
16	157	157
47	222	222
71	198	198
96	215	215
123	215	215
133	212	212

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	37
I 9	31
I 18	30
I 28	35
I 37	40
I 46	44
I 56	48
I 65	49
I 74	48
I 84	48
I 93	46
I 102	46
I 112	44
I 121	41
I 131	36
I 140	31
I 149	24
I 159	19
I 168	14
I 177	11
I 187	9
I 196	7
I 206	4



ROUND NUMBER = 7

PROJECTILE MASS (GM) = 8.100

PROJECTILE TYPE = REM, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) = 355.72

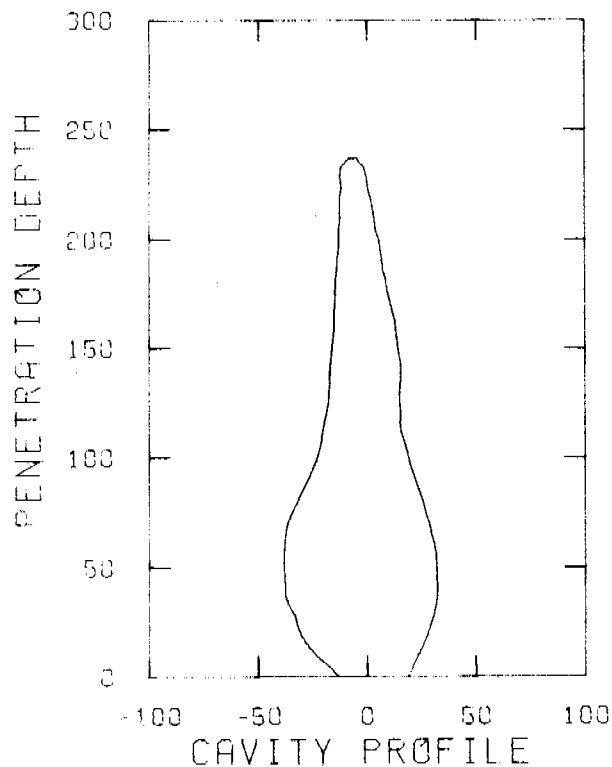
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	16
4	19
9	23
13	26
18	28
23	30
27	32
32	33
37	35
41	35
46	35
51	35
55	35
60	34
65	33
69	32
74	30
79	29
83	27
88	25
93	23
97	21
102	20
106	19
111	17
116	17
120	16
125	16
130	15
134	16
139	16
144	15
148	15
153	14
158	14
163	13
167	13
172	12
176	11
181	11
185	10
190	10
195	9
199	9
204	8
209	7
213	7
218	6



ROUND NUMBER

7 CONTINUED

1	223	5
1	227	6
1	232	5
1	236	1
1	0	0
1	0	0

ROUND NUMBER -- 892

PROJECTILE MASS (GM) -- 3.100

PROJECTILE TYPE --REM,JHP,357MAG

PROJECTILE VELOCITY (MPS) --382.52

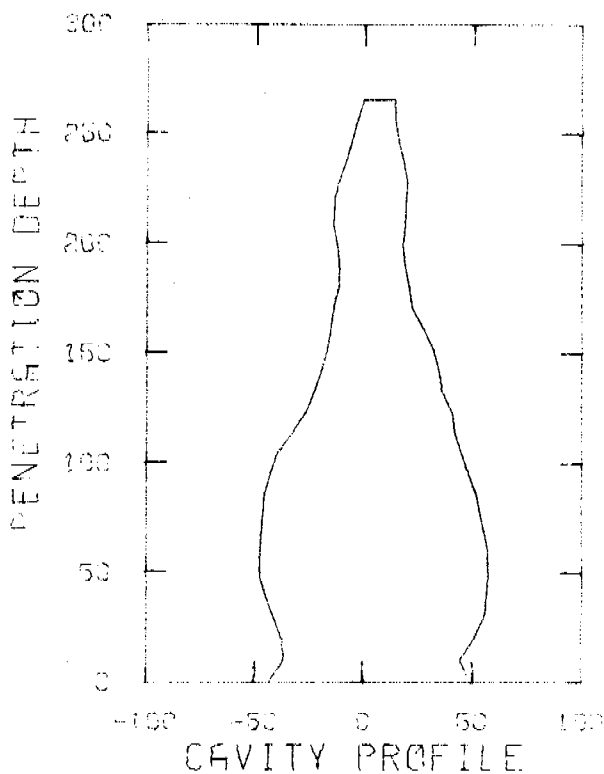
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	79	79
18	263	263
53	112	112
81	116	117
109	113	113
144	132	132
157	157	177

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	45
I 9	40
I 18	43
I 28	48
I 37	50
I 47	52
I 56	52
I 66	51
I 75	50
I 83	48
I 94	45
I 104	42
I 113	36
I 123	30
I 132	25
I 142	26
I 151	23
I 161	21
I 170	17
I 180	15
I 189	14
I 199	14
I 208	16
I 218	15
I 227	15
I 237	12
I 246	10
I 256	8
I 263	6



ROUND NUMBER -- 857

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --REM,JHP,30CAL

PROJECTILE VELOCITY (MPS) --398.37

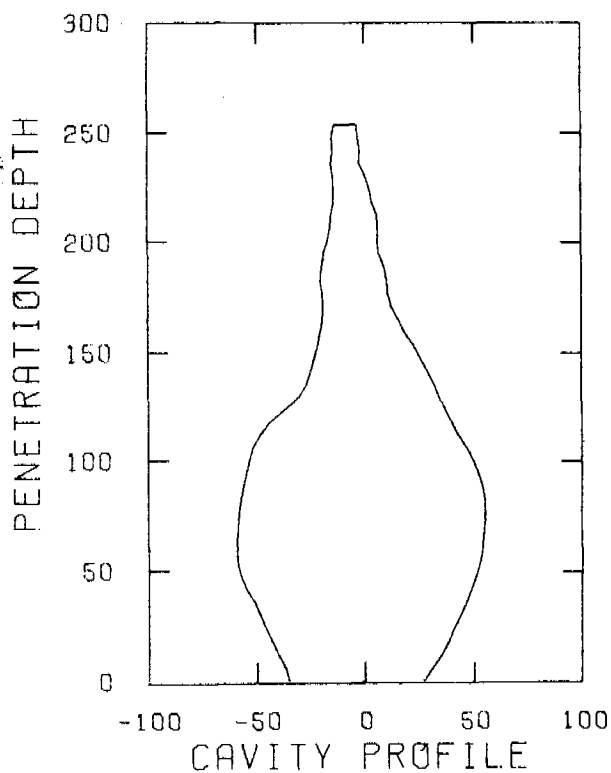
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-9	47	49
14	147	147
44	198	198
67	237	239
77	238	238
105	226	227
116	134	134

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	30
6	33
12	37
17	40
23	43
29	45
35	48
41	51
47	54
53	55
59	56
65	56
70	56
76	56
82	56
88	54
94	53
100	51
106	49
112	45
117	41
123	36
129	31
135	29
141	26
147	24
153	21
159	19
165	17
170	15
177	14
182	15
188	14
194	12
200	11
206	10
212	10
218	8
223	8
229	7
235	6
241	6
247	5
253	4



ROUND NUMBER -- 891

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --REM,JHP,357MAG

PROJECTILE VELOCITY (MPS) --430.07

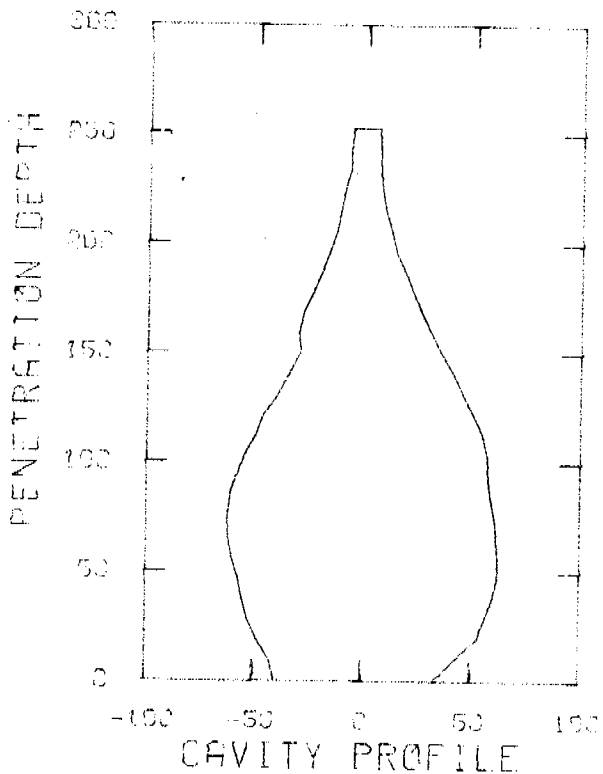
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	96	96
26	226	226
62	118	118
92	165	166
121	136	136
154	144	144
167	128	129

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	36
I 9	42
I 18	50
I 28	54
I 37	57
I 46	59
I 56	61
I 65	61
I 74	61
I 84	59
I 93	57
I 102	55
I 112	51
I 121	48
I 131	42
I 140	37
I 149	32
I 159	26
I 168	26
I 177	22
I 186	18
I 196	15
I 205	12
I 215	9
I 224	8
I 233	6
I 243	6
I 252	5
I	



ROUND NUMBER -- 907

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --REM,JHP,357MAG

PROJECTILE VELOCITY (MPS) --269.14

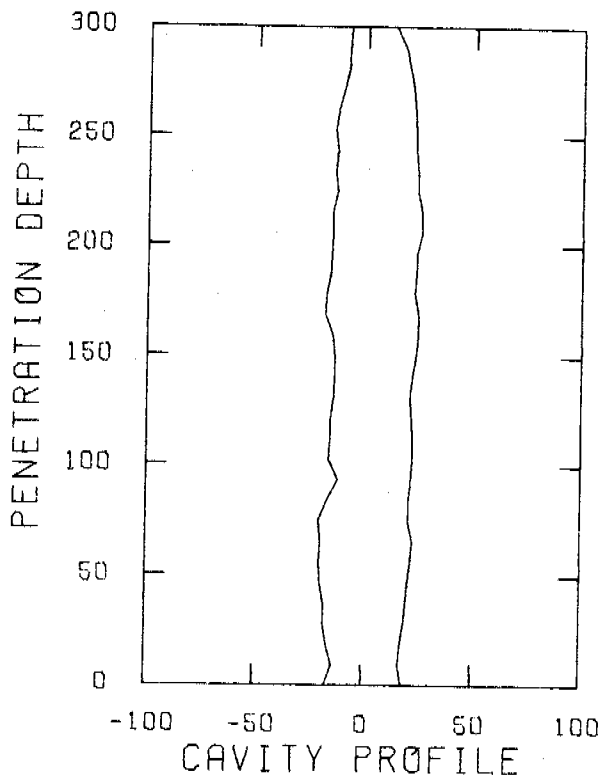
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
2	73	222
26	81	220
74	97	214
118	121	218
154	172	241
139	201	230
218	246	247

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	17
I	9	15
I	18	17
I	27	18
I	37	19
I	46	20
I	55	21
I	65	21
I	74	20
I	83	18
I	93	16
I	102	19
I	112	18
I	121	13
I	131	17
I	140	17
I	149	15
I	159	19
I	168	21
I	177	20
I	187	19
I	196	19
I	205	20
I	215	20
I	224	18
I	233	19
I	243	18
I	252	18
I	262	17
I	271	16
I	280	14
I	290	12
I	299	10



ROUND NUMBER -- 906

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --REM,JHP,357MAG

PROJECTILE VELOCITY (MPS) --320.65

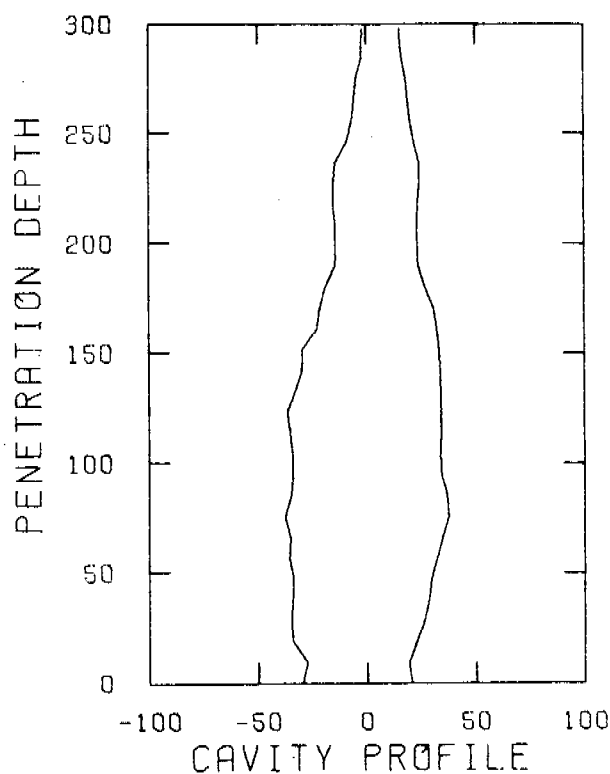
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PEN-TRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-1	71	71
24	104	105
57	111	112
85	101	101
117	113	201
159	98	99
177	101	110

CAVITY MEASUREMENTS

PEN-TRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	25
9	23
19	28
28	30
37	31
47	31
56	34
65	35
75	37
85	37
94	34
104	33
113	34
123	35
132	37
142	31
151	31
161	27
170	26
180	22
189	18
199	18
208	18
218	19
227	19
236	19
246	15
256	15
265	12
275	11
284	9
294	8
303	8
313	7
322	7



ROUND NUMBER -- 904

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --REM,JHP,357MAG

PROJECTILE VELOCITY (MPS) --392.89

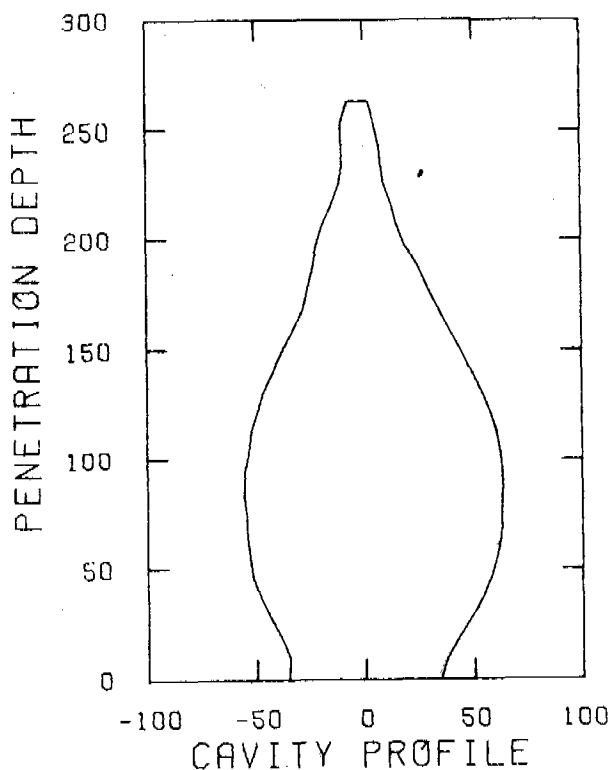
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
1	91	91
28	209	209
63	208	208
91	204	204
119	231	232
153	202	204
165	221	224

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	35
I	9	36
I	13	40
I	28	46
I	37	51
I	47	55
I	56	57
I	65	58
I	75	58
I	84	59
I	93	59
I	103	57
I	112	56
I	122	53
I	131	49
I	141	45
I	150	40
I	159	35
I	169	31
I	178	27
I	188	24
I	197	20
I	207	17
I	216	13
I	225	10
I	235	8
I	244	8
I	253	7
I	263	4



ROUND NUMBER -- 905

PROJECTILE MASS (GM) --11.983

PROJECTILE TYPE --REM,JHP,357MAG

PROJECTILE VELOCITY (MPS) --351.27

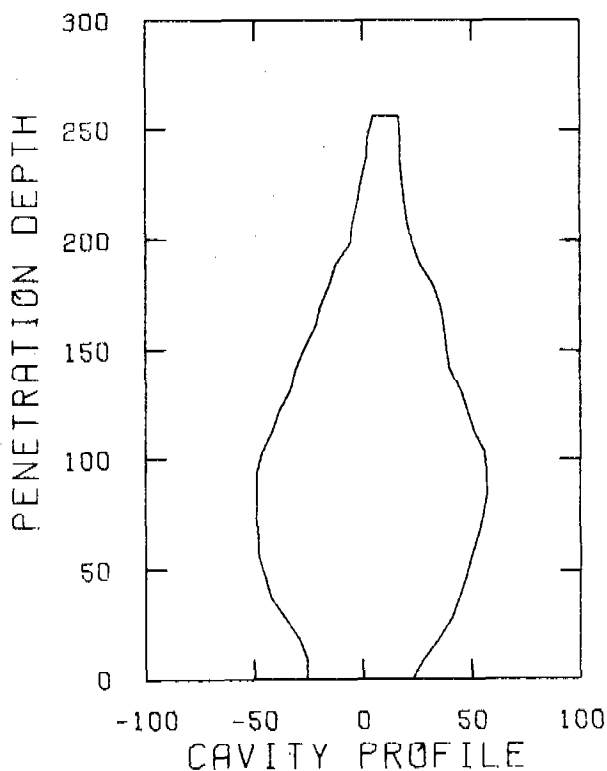
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	68	68
21	127	127
50	156	156
82	181	181
109	171	177
145	170	177
158	136	138

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	24
9	26
18	31
28	38
37	45
47	46
56	40
66	30
75	32
85	31
94	32
104	31
113	46
123	45
132	39
142	35
151	32
161	29
170	27
180	23
189	19
199	14
208	12
218	10
227	9
237	7
246	7
256	5



ROUND NUMBER -- 898

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --REM,JSP,357MAG

PROJECTILE VELOCITY (MPS) --320.95

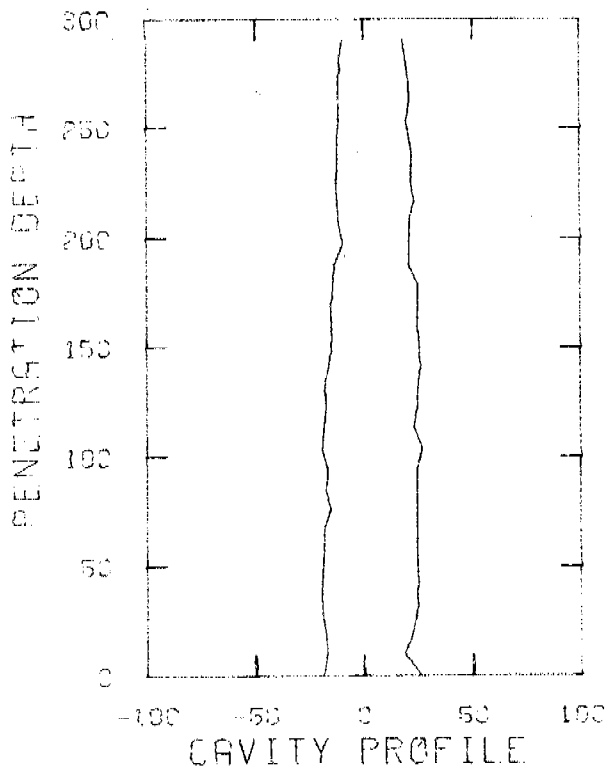
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
8	65	65
17	62	208
54	67	151
90	60	227
131	72	73
190	51	278
218	60	224

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	22
I 9	17
I 18	20
I 28	21
I 37	22
I 46	22
I 56	21
I 65	21
I 75	20
I 84	21
I 93	20
I 103	23
I 112	20
I 122	20
I 131	21
I 140	21
I 150	20
I 159	19
I 168	20
I 178	19
I 187	17
I 196	14
I 206	16
I 215	17
I 225	17
I 234	17
I 243	16
I 253	15
I 262	16
I 272	15
I 281	14
I 290	13
I 300	13
I 309	11
I 318	12



ROUND NUMBER -- 897

PROJECTILE MASS (GM) --10,238

PROJECTILE TYPE --REM,JSP,357MAG

PROJECTILE VELOCITY (FPS) --356.01

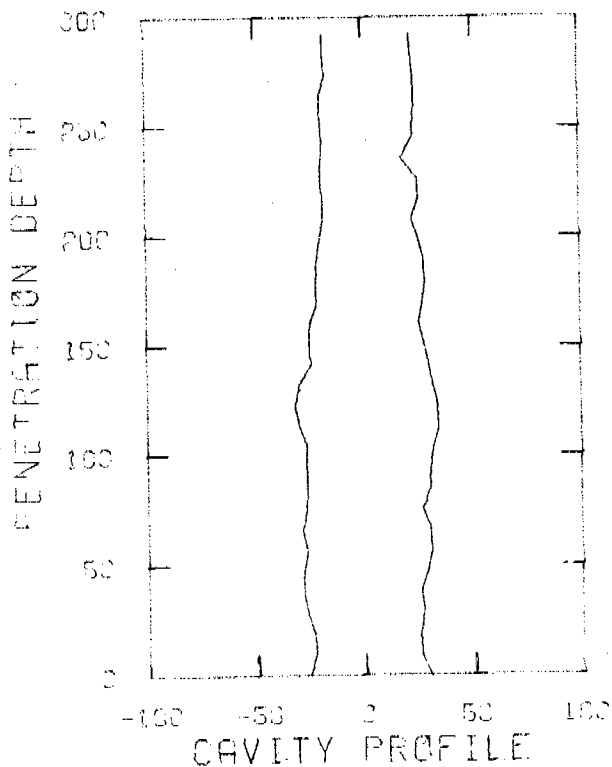
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
7	61	63
22	48	48
63	50	50
101	60	192
145	66	163
206	86	87
236	85	129

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	I CAVITY RADIUS (MM)
I 0	I 27
I 9	I 24
I 18	I 24
I 22	I 26
I 37	I 27
I 46	I 23
I 55	I 29
I 65	I 29
I 75	I 26
I 84	I 28
I 94	I 28
I 103	I 29
I 113	I 32
I 122	I 32
I 131	I 30
I 141	I 26
I 150	I 26
I 160	I 25
I 169	I 24
I 179	I 25
I 188	I 24
I 197	I 22
I 207	I 20
I 216	I 21
I 226	I 22
I 235	I 18
I 244	I 20
I 254	I 21
I 263	I 22
I 273	I 20
I 282	I 20
I 292	I 19
I 301	I 17
I 311	I 15
I 320	I 14



ROUND NUMBER -- 896

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --REM,JSP,357MAG

PROJECTILE VELOCITY (MPS) --394.11

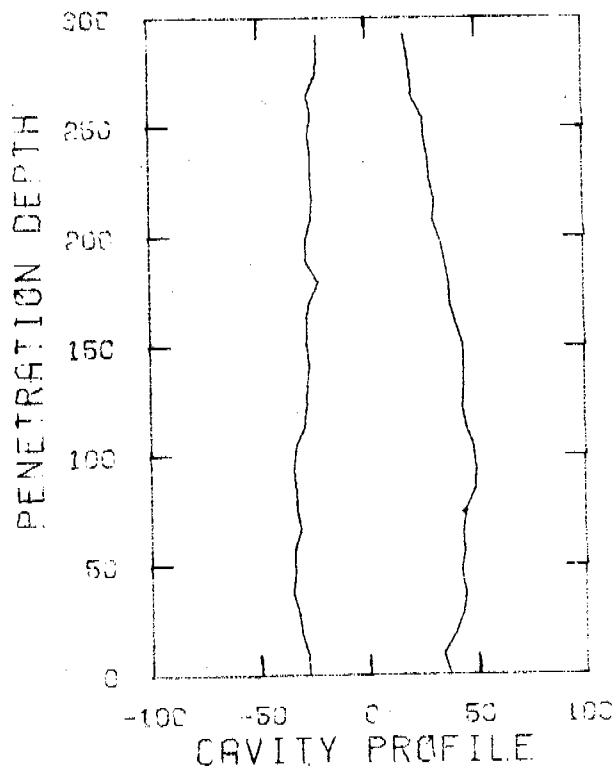
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
142	117	117
166	82	172
195	115	184
227	92	208
259	114	177
306	79	185
327	89	208

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	32
9	31
18	35
28	38
37	39
47	38
56	39
65	37
75	39
84	41
94	42
103	41
112	37
122	35
131	35
141	35
150	35
160	34
169	32
178	29
188	31
197	31
207	27
216	27
226	27
235	26
244	26
254	25
263	24
273	21
282	20
292	19
301	18
310	17



ROUND NUMBER -- 900

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --RFM,L,357MAG

PROJECTILE VELOCITY (MPS) --359.97

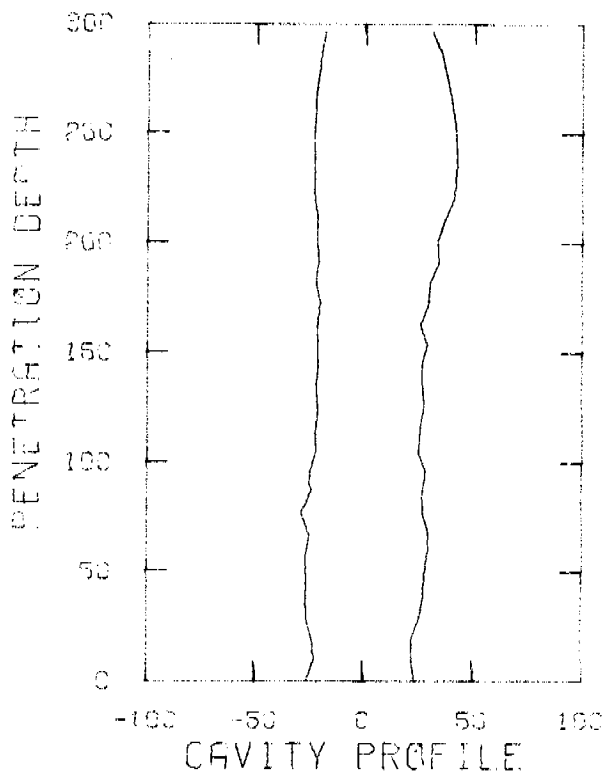
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-11	52	52
18	68	156
60	82	276
100	107	219
145	124	183
206	174	191
231	258	263

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	I CAVITY RADIUS (MM)
I 0	I 24
I 9	I 22
I 19	I 22
I 28	I 26
I 37	I 27
I 47	I 27
I 57	I 28
I 66	I 27
I 76	I 27
I 85	I 25
I 95	I 26
I 105	I 23
I 114	I 23
I 124	I 24
I 133	I 24
I 143	I 23
I 152	I 25
I 162	I 23
I 172	I 25
I 181	I 26
I 191	I 27
I 200	I 28
I 210	I 29
I 219	I 32
I 229	I 32
I 238	I 32
I 248	I 32
I 258	I 31
I 267	I 30
I 277	I 26
I 286	I 27
I 296	I 24
I 305	I 22
I 315	I 22



ROUND NUMBER -- 899

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --REM,L,357MAG

PROJECTILE VELOCITY (MPS) --381.00

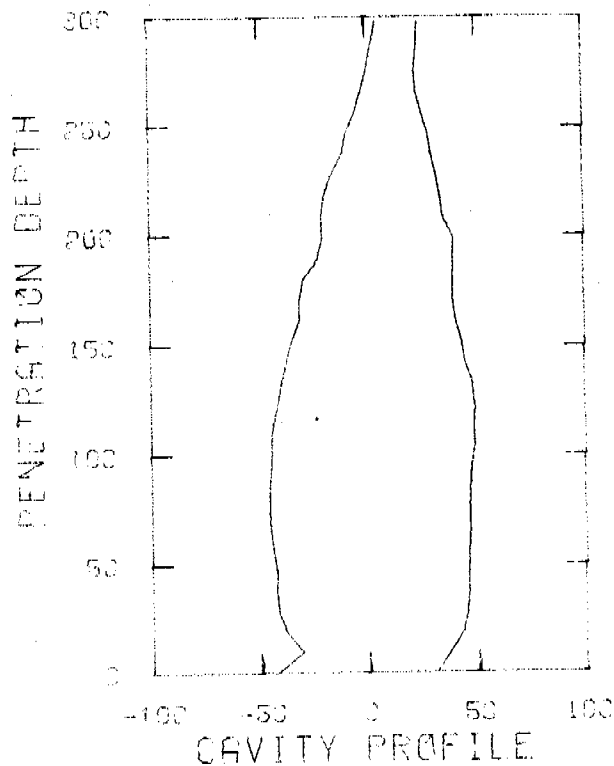
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	221	238
22	242	248
56	239	240
88	251	257
122	227	229
163	174	181
177	207	213

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	36
I 9	34
I 19	40
I 28	43
I 37	44
I 47	44
I 56	45
I 66	46
I 75	46
I 85	46
I 94	46
I 104	47
I 113	46
I 123	45
I 132	43
I 142	40
I 151	38
I 161	35
I 170	35
I 180	34
I 189	30
I 199	29
I 208	27
I 218	26
I 227	23
I 237	20
I 246	18
I 256	15
I 265	12
I 275	10
I 284	10
I 294	9
I 303	9
I 313	8



ROUND NUMBER -- 933

PROJECTILE MASS (GM) --12.960

PROJECTILE TYPE --REM,L,38SP

PROJECTILE VELOCITY (MPS) --325.53

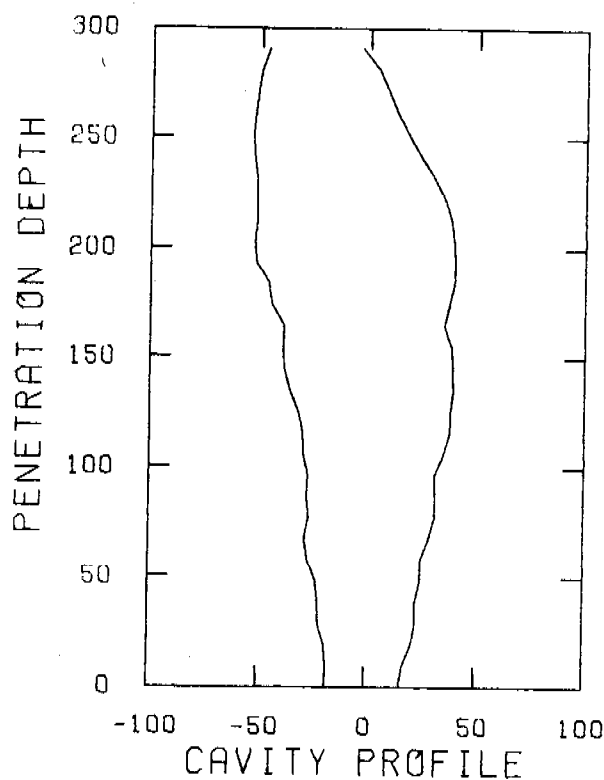
PROJECTILE DIAMETER (CM) -- 9.093

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	17
I	9	17
I	19	20
I	28	22
I	38	22
I	48	24
I	58	26
I	67	28
I	77	29
I	87	29
I	96	29
I	106	32
I	116	33
I	125	35
I	135	37
I	145	38
I	154	38
I	164	36
I	174	40
I	184	42
I	193	45
I	203	45
I	213	44
I	222	43
I	232	40
I	242	38
I	251	35
I	261	32
I	271	30
I	280	27
I	290	21
I	300	16
I	310	14
I	319	12
I	329	12



ROUND NUMBER -- 912

PROJECTILE MASS (GM) --12.960

PROJECTILE TYPE --REM,L,38SP

PROJECTILE VELOCITY (MPS) --367.59

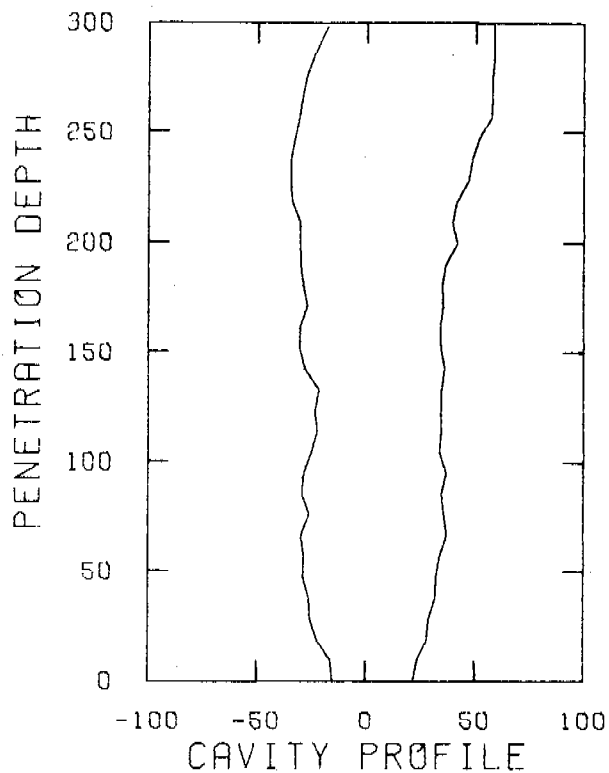
PROJECTILE DIAMETER (CM) -- 9.093

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-4	64	65
27	67	67
69	62	64
109	83	258
154	125	238
215	86	150
241	70	101

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	I CAVITY RADIUS(MM)
I 0	I 18
I 9	I 19
I 19	I 25
I 28	I 27
I 38	I 29
I 47	I 30
I 57	I 31
I 66	I 33
I 76	I 30
I 85	I 32
I 95	I 32
I 104	I 29
I 114	I 28
I 123	I 28
I 133	I 28
I 142	I 32
I 152	I 32
I 161	I 32
I 171	I 31
I 180	I 32
I 190	I 33
I 199	I 36
I 209	I 35
I 218	I 37
I 223	I 40
I 237	I 41
I 247	I 42
I 256	I 44
I 266	I 43
I 275	I 42
I 285	I 41
I 294	I 39
I 304	I 36
I 314	I 33
I 323	I 30



ROUND NUMBER -- 911

PROJECTILE MASS (GM) --12.960

PROJECTILE TYPE --REM.L.38SP

PROJECTILE VELOCITY (MPS) --396.85

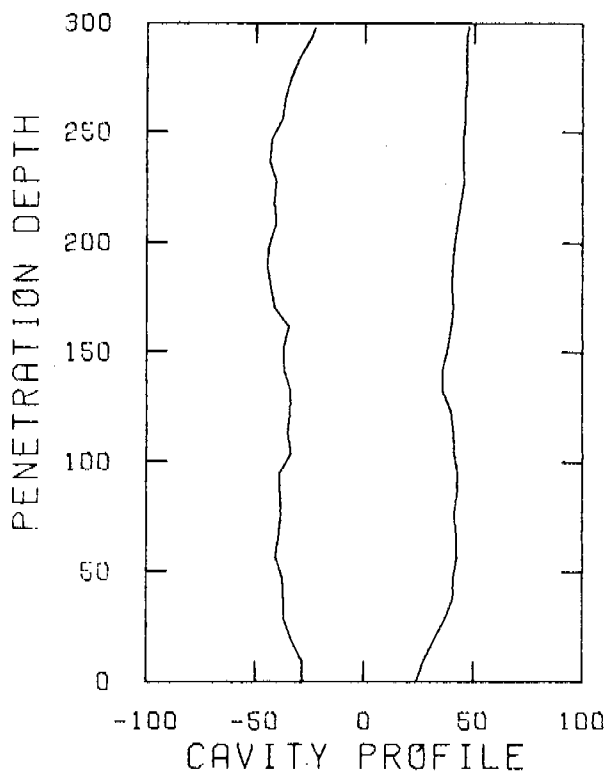
PROJECTILE DIAMETER (CM) -- 9.093

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	69	69
29	81	81
74	78	79
115	67	67
162	111	229
223	142	216
251	128	164

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	26
I 9	27
I 19	32
I 28	36
I 37	38
I 47	39
I 56	41
I 66	40
I 75	39
I 85	40
I 94	40
I 104	37
I 113	38
I 123	36
I 132	34
I 142	36
I 151	37
I 161	37
I 170	41
I 180	41
I 189	42
I 199	42
I 208	41
I 218	42
I 227	43
I 237	44
I 246	44
I 256	41
I 265	41
I 275	40
I 284	38
I 294	38
I 303	34
I 312	33
I 322	31



ROUND NUMBER -- 873

PROJECTILE MASS (GK) --10.238

PROJECTILE TYPE --REM,HP,30SP

PROJECTILE VELOCITY (MPS) --335.28

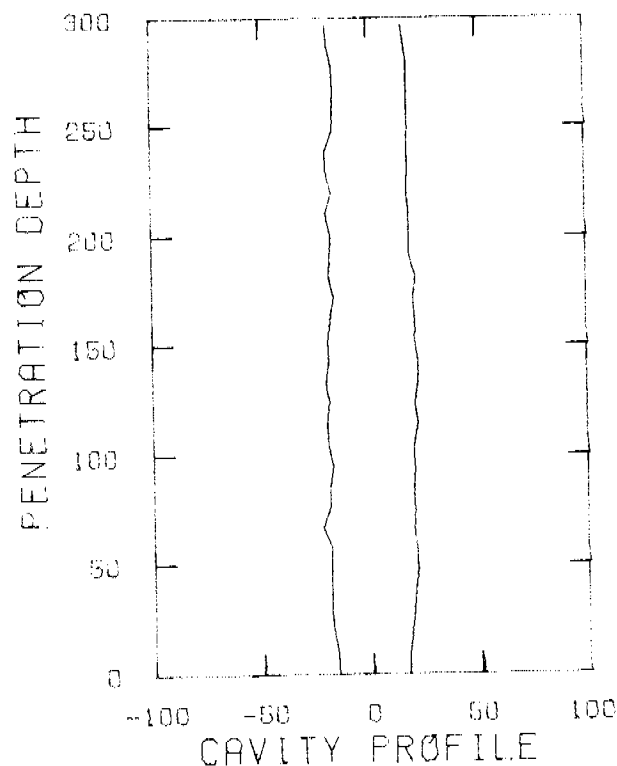
PROJECTILE DIAMETER (CM) -- 9.093

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	52	52
20	48	48
58	59	59
98	59	60
142	49	49
207	54	205
238	78	225

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	16
9	16
18	18
28	19
38	19
47	20
57	19
66	21
76	19
85	19
95	18
104	19
114	20
124	19
133	21
143	20
152	20
162	19
172	18
181	20
191	18
200	17
210	19
219	17
229	18
238	18
248	17
258	17
267	16
277	17
286	17
296	17
305	17
315	16
325	16



ROUND NUMBER -- 872

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --REM,HP,30SP

PROJECTILE VELOCITY (MPS) --374.90

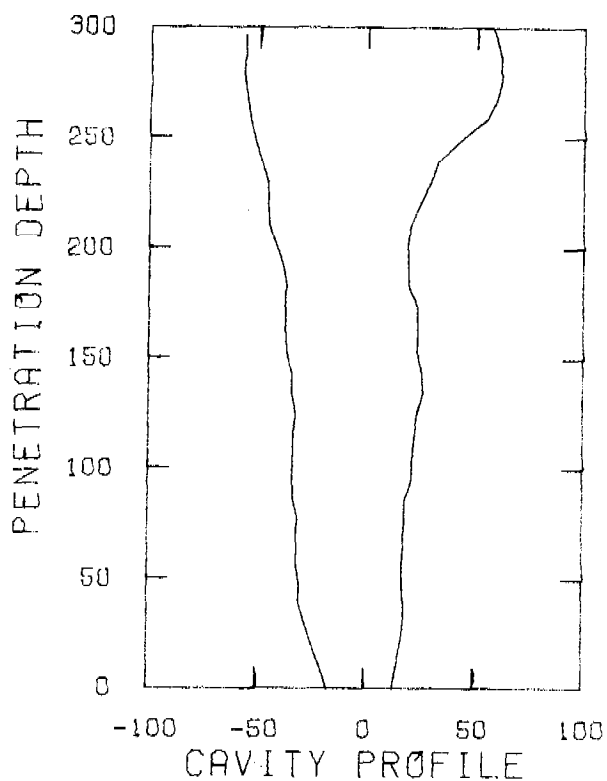
PROJECTILE DIAMETER (CM) -- 9.093

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	64	64
27	62	178
72	74	154
112	73	204
160	47	48
221	184	191
247	147	147

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	15
9	17
19	20
28	22
38	24
47	23
57	24
66	24
76	24
85	25
95	27
105	27
114	28
124	27
134	30
143	30
152	30
162	30
172	30
181	28
190	29
201	30
210	32
220	35
229	37
239	41
248	47
258	54
267	57
277	59
287	59
296	57
306	54
315	45



ROUND NUMBER -- 871

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --REM,MP,38SP

PROJECTILE VELOCITY (MPS) --409.65

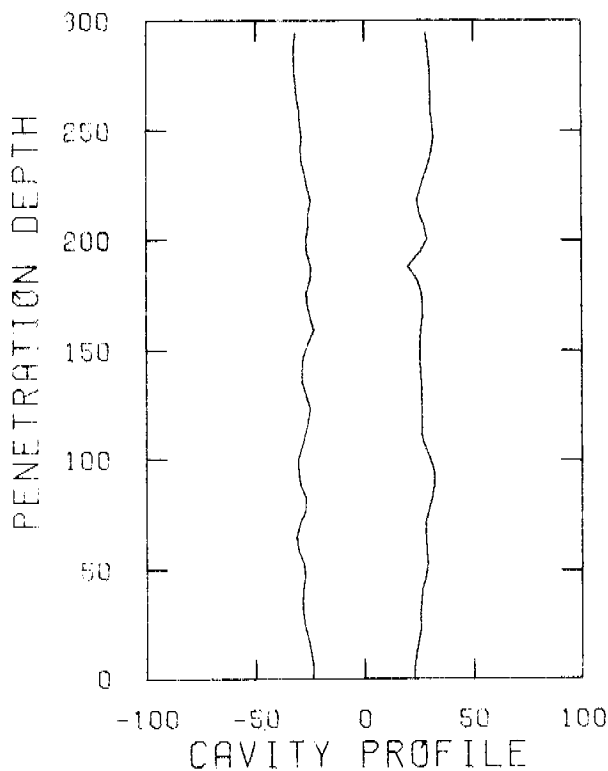
PROJECTILE DIAMETER (CM) -- 9.093

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-6	57	57
28	50	51
74	57	57
120	49	51
170	83	171
244	163	236
275	222	243

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	23
5	23
12	24
17	25
23	26
29	26
35	27
41	27
47	27
53	28
59	29
64	29
70	28
76	28
82	28
88	30
94	31
100	30
106	28
111	26
118	26
123	25
129	26
135	27
141	27
147	26
153	25
159	24
165	25
170	26
176	26
182	24
188	22
194	25
200	27
206	26
212	25
218	24
224	26
229	27
235	29
241	30
247	30
253	30
259	30
265	30
271	30
277	31



ROUND NUMBER 871 CONTINUED

1	282	31
1	288	30
1	294	29
1	300	28
1	306	26
1	312	25

ROUND NUMBER -- 870

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --REN,RN,38SP

PROJECTILE VELOCITY (MPS) --329.49

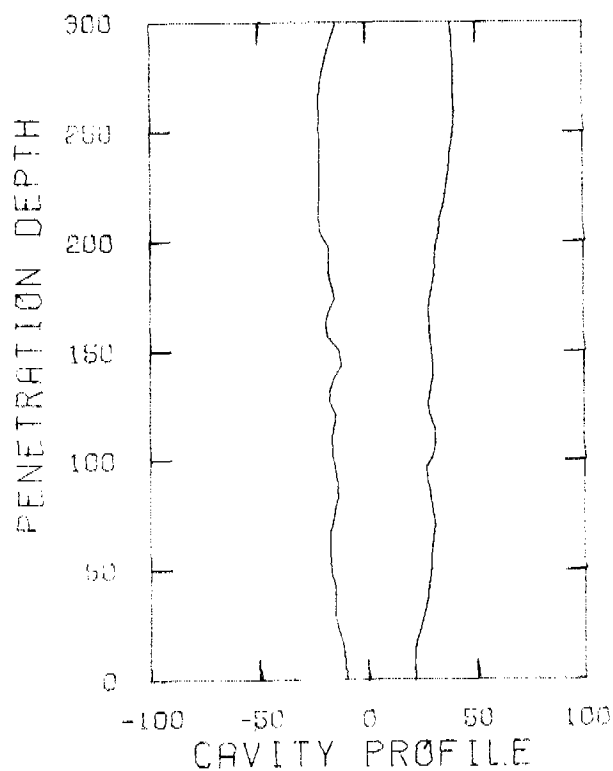
PROJECTILE DIAMETER (CM) -- 9.093

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-8	54	57
19	62	62
58	69	69
95	68	68
131	69	69
198	134	207
224	165	186

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	15
6	15
11	16
17	17
23	19
30	20
36	21
42	21
48	23
53	23
59	23
65	24
71	23
77	22
83	21
89	20
95	20
101	23
107	24
113	23
119	21
125	22
131	23
137	22
143	21
149	21
155	23
161	24
167	23
173	21
179	23
185	24
191	24
197	24
203	27
209	28
215	28
221	29
227	29
233	30
239	30
245	30
251	31
257	31
263	31
269	30
275	30
281	29



ROUND NUMBER 870 CONTINUED

I	287	28
I	293	27
I	299	26
I	305	25
I	311	23
I	317	22

ROUND NUMBER -- 869

PROJECTILE MASS (GM) -- 30.238

PROJECTILE TYPE -- REM, RN, 38SP

PROJECTILE VELOCITY (MPS) -- 375.51

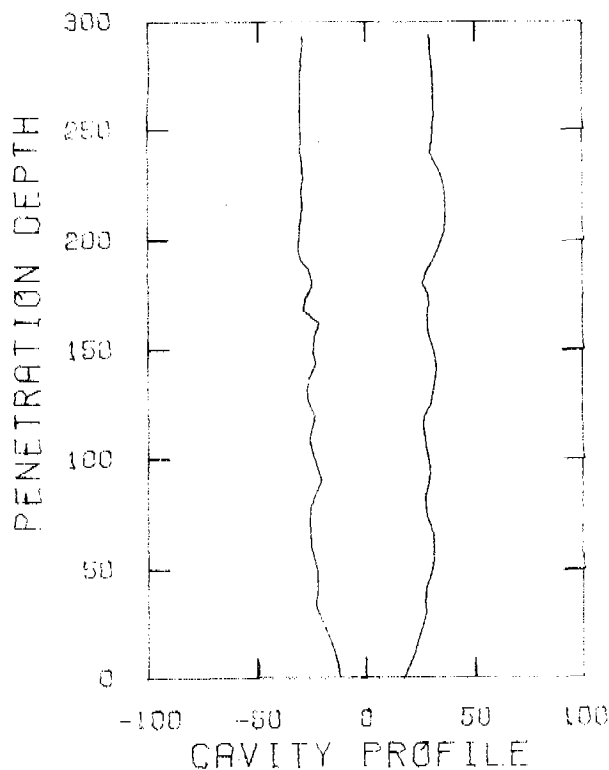
PROJECTILE DIAMETER (CM) -- 9.093

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	65	66
24	67	172
67	79	231
106	94	221
153	118	154
213	248	249
239	230	243

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	14
6	16
12	18
18	20
23	22
29	24
35	25
42	24
48	26
54	27
59	28
66	28
72	27
77	26
83	25
89	24
95	25
101	26
108	26
113	25
119	25
125	28
131	29
137	29
143	27
149	27
155	26
161	24
167	28
173	28
179	25
185	26
191	30
197	32
203	33
209	33
215	33
221	32
227	31
233	30
239	29
245	30
251	30
257	30
263	30
269	30
275	30
281	30



ROUND NUMBER 869 CONTINUED

1	287	29
1	293	28
1	300	28
1	305	26
1	311	25
1	317	24

ROUND NUMBER -- 860

PROJECTILE MASS (GK) --10.230

PROJECTILE TYPE --REM, RM, 30SP

PROJECTILE VELOCITY (MPS) --305.00

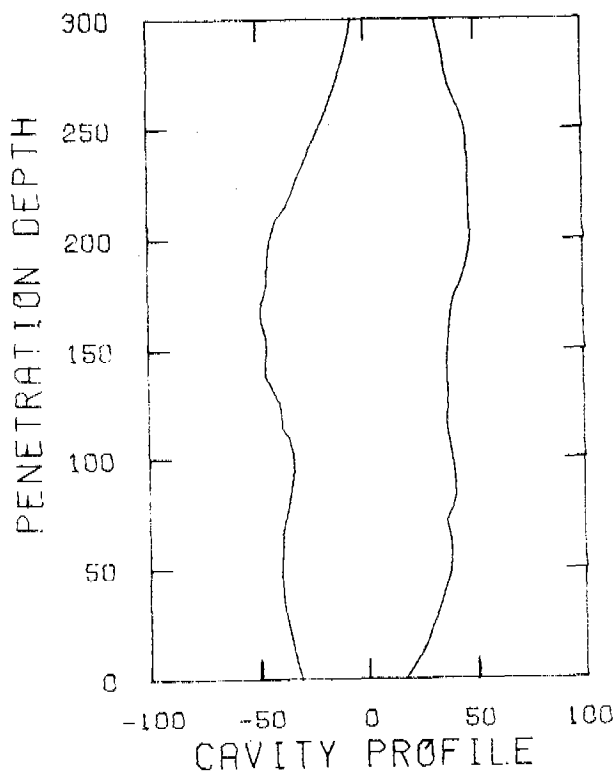
PROJECTILE DIAMETER (CM) -- 9.893

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
37	60	265
66	59	265
103	133	239
138	150	224
173	252	274
219	240	243
238	254	269

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	23
6	26
11	29
18	31
23	33
28	35
36	36
47	38
54	39
59	38
65	38
72	37
77	37
83	38
89	37
95	36
102	36
107	36
113	37
119	38
125	38
131	40
138	41
143	41
149	41
156	42
161	43
167	44
173	43
179	44
185	45
191	45
197	46
203	45
209	44
215	41
221	40
227	39
233	37
239	36
245	34
251	33
257	30
263	28
269	25
275	24
281	22
287	21



ROUND NUMBER 868 CONTINUED

I	293	19
I	299	18
I	305	18
I	313	17
I	317	17
I		

ROUND NUMBER -- 003

PROJECTILE MASS (G) --10.238

PROJECTILE TYPE --REM,SWC,38SP

PROJECTILE VELOCITY (MPS) --329.79

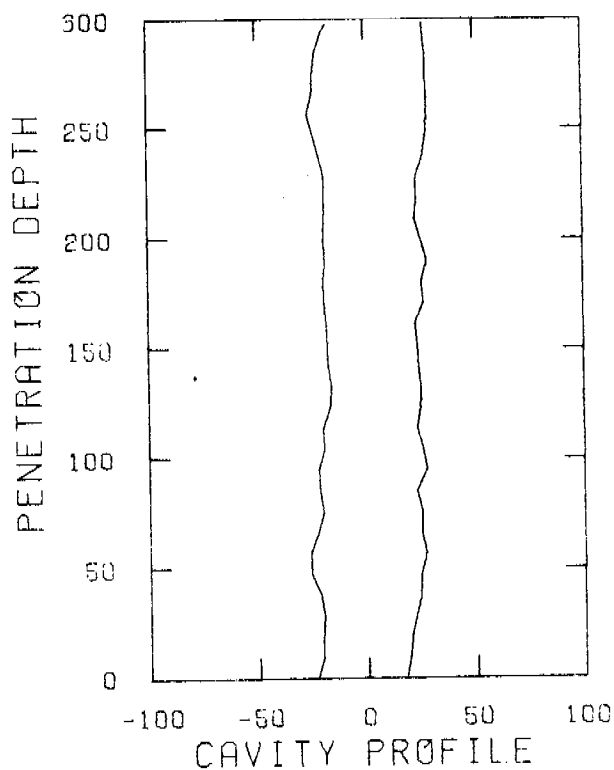
PROJECTILE DIAMETER (CM) -- 9.093

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	60	152
24	36	192
63	72	215
98	82	226
138	121	226
195	165	238
221	201	235

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	20
I 9	19
I 19	20
I 28	21
I 38	23
I 47	25
I 57	26
I 66	23
I 75	22
I 85	22
I 95	24
I 104	22
I 114	21
I 123	20
I 132	20
I 142	22
I 152	20
I 161	20
I 171	22
I 180	22
I 190	23
I 199	22
I 208	20
I 218	21
I 227	21
I 237	23
I 246	25
I 256	27
I 266	25
I 275	27
I 284	25
I 294	23
I 303	20
I 313	17



RUND NUMBER -- 902

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --REM,SWC,38SP

PROJECTILE VELOCITY (MPS) --369.30

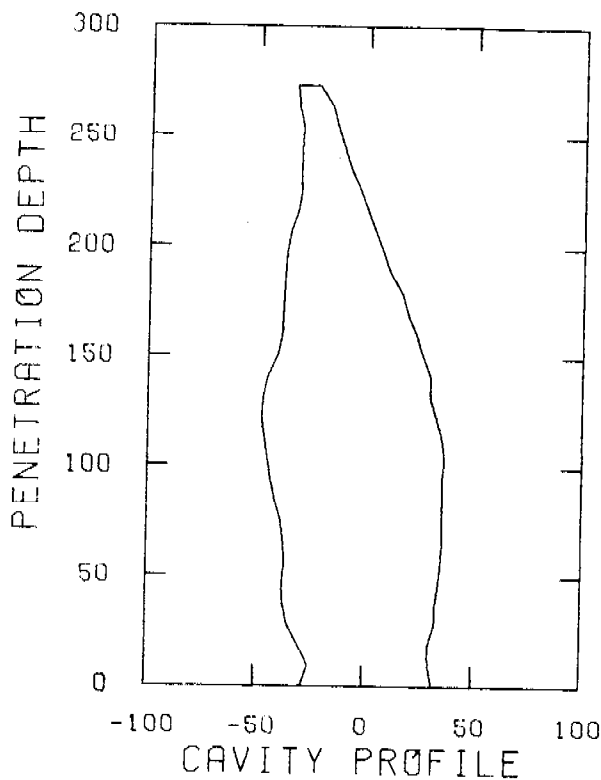
PROJECTILE DIAMETER (CM) -- 9.093

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	30
I	9	27
I	18	29
I	28	33
I	37	35
I	46	35
I	56	36
I	65	36
I	75	37
I	84	38
I	93	39
I	103	40
I	112	40
I	122	40
I	131	38
I	141	37
I	150	33
I	160	30
I	169	28
I	178	27
I	188	24
I	197	22
I	207	19
I	216	15
I	225	13
I	235	11
I	244	9
I	254	7
I	263	7
I	273	5



ROUND NUMBER -- 901

PROJECTILE MASS (GM) --10,238

PROJECTILE TYPE --REM,SWC,38SP

PROJECTILE VELOCITY (MPS) --416.36

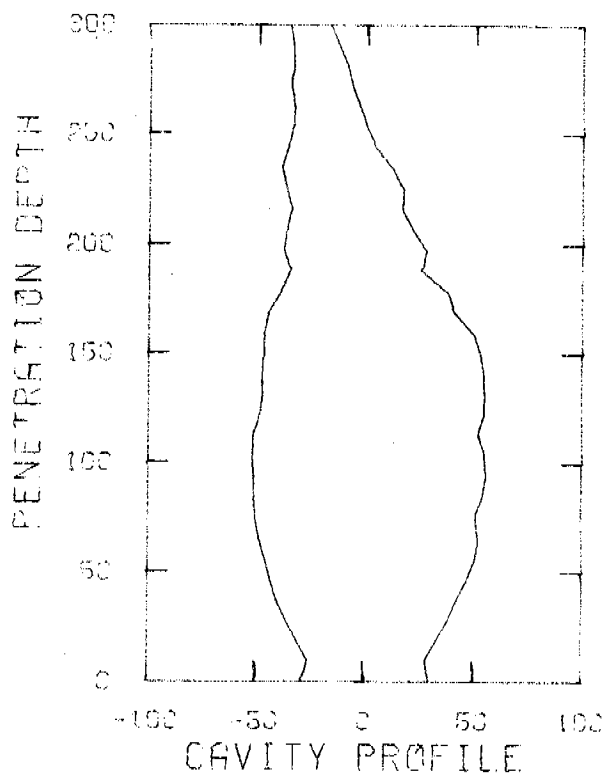
PROJECTILE DIAMETER (CM) -- 9.093

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	70	70
28	117	117
70	123	133
103	126	126
135	149	152
178	126	130
196	146	149

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	29
I 9	26
I 18	32
I 28	37
I 37	41
I 46	45
I 55	48
I 65	50
I 74	50
I 84	52
I 93	53
I 102	53
I 112	51
I 121	51
I 130	51
I 140	50
I 149	49
I 159	47
I 168	42
I 177	38
I 187	30
I 196	32
I 206	29
I 215	25
I 224	26
I 234	25
I 243	20
I 252	16
I 262	14
I 271	13
I 281	12
I 290	10
I 299	9
I 309	4



ROUND NUMBER -- 908

PROJECTILE MASS (GM) -- 9.590

PROJECTILE TYPE --REM,WC,38SP

PROJECTILE VELOCITY (MPS) --264.87

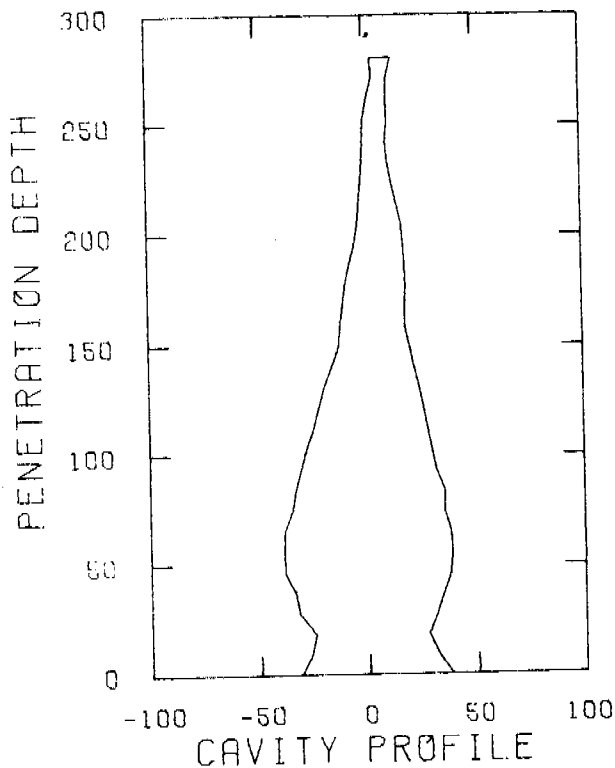
PROJECTILE DIAMETER (CM) -- 9.093

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-2	107	107
19	104	104
58	135	247
90	146	207
117	202	239
140	163	204
162	152	202

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	34
9	29
18	26
27	21
37	24
46	36
56	38
65	32
74	25
84	24
93	21
103	28
112	26
121	24
130	21
140	18
149	16
158	14
168	14
177	13
187	12
196	11
205	9
215	8
224	6
233	5
243	5
252	3
262	4
271	4
280	4



ROUND NUMBER -- 909

PROJECTILE MASS (GM) -- 9.590

PROJECTILE TYPE --REM,WC,38SP

PROJECTILE VELOCITY (MPS) --293.22

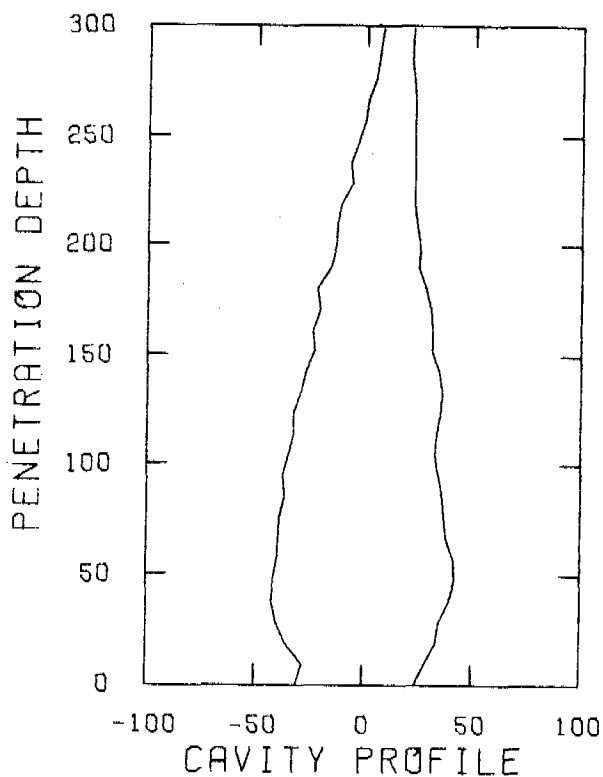
PROJECTILE DIAMETER (CM) -- 9.093

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
1	107	107
25	109	109
69	94	95
106	111	111
137	86	91
163	95	99
188	119	122

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	27
9	28
19	34
28	37
38	40
47	42
56	40
66	38
76	37
85	36
95	35
104	33
114	32
123	33
133	32
142	30
152	27
161	27
171	25
181	24
190	20
200	19
209	18
219	16
228	14
238	14
247	12
257	11
266	10
276	8
285	7
295	7
304	6
314	6



ROUND NUMBER -- 910

PROJECTILE MASS (GM) -- 9.590

PROJECTILE TYPE --REM,WC,38SP

PROJECTILE VELOCITY (MPS) --437.39

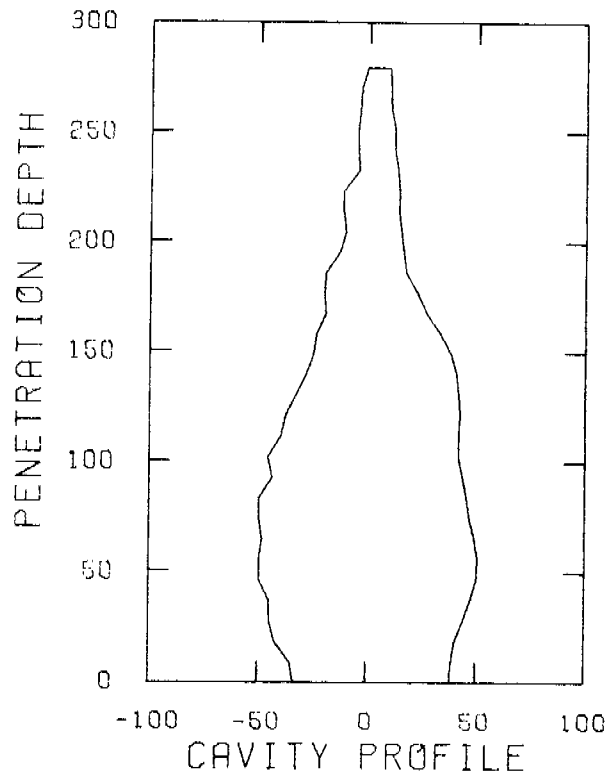
PROJECTILE DIAMETER (CM) -- 9.093

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
12	120	120
43	87	89
93	104	110
130	113	118
162	87	88
182	99	99
200	87	87

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	39
I 9	37
I 18	41
I 27	44
I 37	46
I 46	49
I 55	50
I 63	49
I 74	48
I 83	47
I 93	45
I 102	45
I 111	40
I 120	40
I 130	37
I 139	34
I 149	31
I 158	28
I 167	26
I 177	21
I 186	18
I 195	14
I 205	12
I 214	12
I 223	12
I 233	8
I 242	6
I 251	3
I 260	7
I 270	6
I 279	5
I	



ROUND NUMBER -- 890

PROJECTILE MASS (GM) --13.608

PROJECTILE TYPE --REM,JSP,41MAG

PROJECTILE VELOCITY (MPS) --296.57

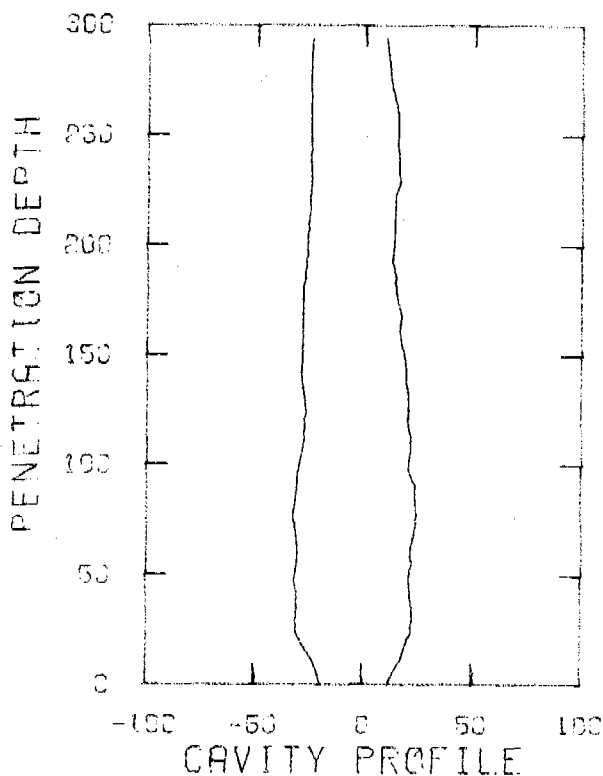
PROJECTILE DIAMETER (CM) -- 10.414

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	81	82
28	81	81
82	80	234
131	94	243
176	89	260
217	81	237
259	88	248

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	15
I	5	17
I	11	20
I	17	23
I	23	26
I	30	26
I	35	26
I	41	26
I	47	26
I	53	26
I	59	26
I	65	26
I	71	27
I	77	28
I	83	27
I	89	27
I	95	25
I	101	24
I	107	24
I	113	24
I	119	23
I	125	23
I	132	23
I	138	23
I	143	23
I	149	23
I	155	22
I	161	22
I	167	22
I	173	21
I	179	21
I	185	20
I	191	19
I	197	19
I	203	19
I	210	19
I	216	19
I	222	19
I	227	20
I	233	20
I	239	19
I	245	19
I	251	19
I	258	19
I	263	19
I	269	18
I	276	18
I	282	17



ROUND NUMBER 890 CONTINUED

I	288	17
I	294	16
I	300	16
I	306	16
I	312	16
I	318	15

ROUND NUMBER -- 888

PROJECTILE MASS (GM) --13.608

PROJECTILE TYPE --REM,JSP,41MAG

PROJECTILE VELOCITY (MPS) --347.78

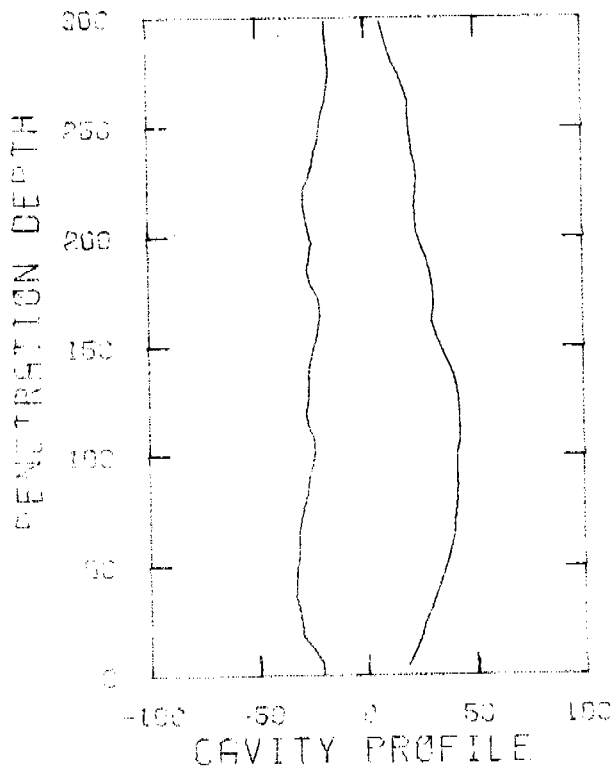
PROJECTILE DIAMETER (CM) -- 10.414

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
5	83	83
36	82	83
94	133	289
144	125	278
189	108	240
229	149	277
267	77	273

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	18
I 5	20
I 11	23
I 17	27
I 23	28
I 29	30
I 35	32
I 41	35
I 47	34
I 53	34
I 59	35
I 65	35
I 71	35
I 77	35
I 83	34
I 89	34
I 95	33
I 101	32
I 107	33
I 113	34
I 119	35
I 125	34
I 131	33
I 137	32
I 143	31
I 149	29
I 155	26
I 160	25
I 166	25
I 172	26
I 178	27
I 184	28
I 190	26
I 196	24
I 202	24
I 208	25
I 214	25
I 220	25
I 226	24
I 232	23
I 238	22
I 244	20
I 250	20
I 256	19
I 262	18
I 268	17
I 274	15
I 280	14



ROUND NUMBER 888 CONTINUED

I	286	13
I	292	13
I	298	12
I	304	11
I	310	11
I	316	10

ROUND NUMBER -- 889

PROJECTILE MASS (GM) --13.408

PROJECTILE TYPE --REM,JSP,41MAG

PROJECTILE VELOCITY (MPS) --348.69

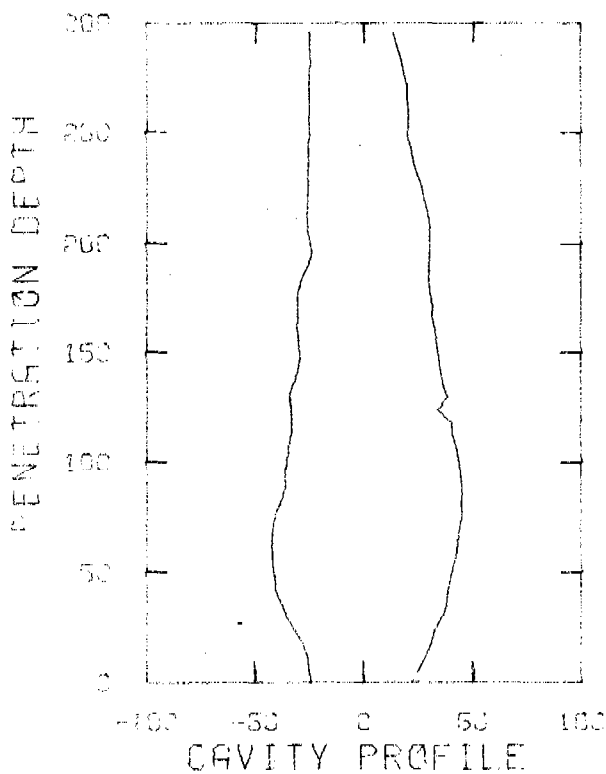
PROJECTILE DIAMETER (CM) -- 10.414

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
5	76	76
36	76	77
93	82	83
143	89	256
189	93	246
229	96	272
268	90	267

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	23
5	25
11	27
17	29
23	32
29	35
35	38
41	39
47	40
53	41
58	42
65	42
70	43
76	42
82	41
88	40
94	40
100	39
106	38
112	36
117	36
124	33
129	36
135	34
141	32
147	31
153	31
159	31
165	30
171	20
177	30
183	28
189	27
195	26
200	27
206	28
212	27
218	26
224	26
230	25
236	23
242	23
247	22
254	22
260	22
265	22
271	22
277	21



ROUND NUMBER 889 CONTINUED

I	283	20
I	289	19
I	295	19
I	301	18
I	307	18
I	313	17

ROUND NUMBER -- 887

PROJECTILE MASS (GM) --13.608

PROJECTILE TYPE --REM,JSP,41MAG

PROJECTILE VELOCITY (MPS) --368.81

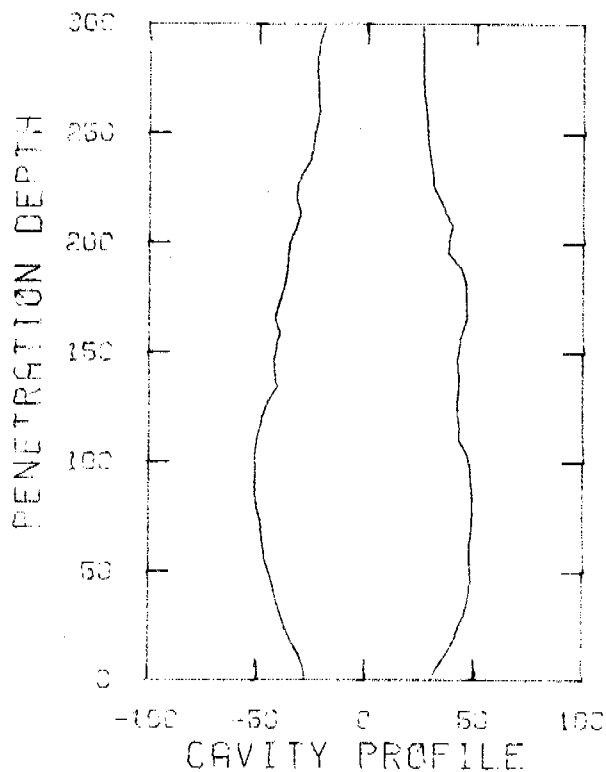
PROJECTILE DIAMETER (CM) -- 10.414

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	86	86
21	94	94
60	124	206
95	143	221
120	147	186
146	196	244
168	196	248

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	28
I 6	31
I 12	34
I 18	37
I 24	40
I 30	42
I 36	44
I 42	45
I 48	46
I 55	47
I 61	47
I 66	48
I 72	48
I 79	49
I 85	50
I 91	49
I 97	49
I 103	48
I 109	46
I 115	45
I 121	44
I 127	43
I 133	41
I 140	42
I 146	42
I 152	41
I 158	41
I 164	44
I 170	43
I 176	42
I 182	41
I 188	39
I 194	36
I 200	36
I 207	35
I 213	33
I 219	33
I 225	31
I 231	29
I 237	27
I 243	26
I 249	25
I 255	24
I 261	24
I 268	24
I 274	24
I 280	24
I 286	23



ROUND NUMBER 887 CONTINUED

I	292	23
I	298	22
I	304	20
I	310	19
I	316	17
I	322	16

ROUND NUMBER -- 886

PROJECTILE MASS (GM) --13.608

PROJECTILE TYPE --REM,JSP,41MAG

PROJECTILE VELOCITY (MPS) --389.23

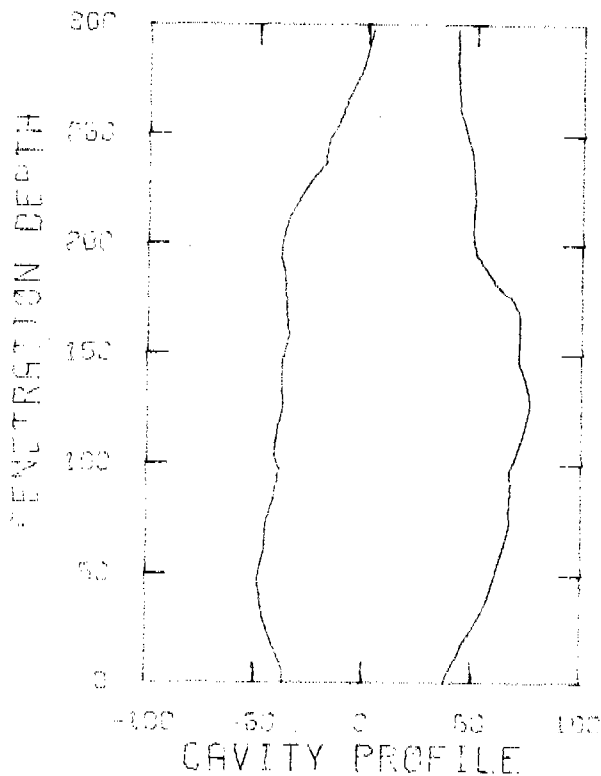
PROJECTILE DIAMETER (CM) -- 10.414

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-5	167	207
25	225	273
64	221	255
99	213	218
136	214	221
182	132	132
207	160	160

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	37
I	6	38
I	11	41
I	18	43
I	24	46
I	30	49
I	36	51
I	42	52
I	48	54
I	54	54
I	60	54
I	66	55
I	72	56
I	78	55
I	84	54
I	90	53
I	96	53
I	102	55
I	109	56
I	115	56
I	121	56
I	127	56
I	133	56
I	145	54
I	151	53
I	157	52
I	163	52
I	169	52
I	175	51
I	181	48
I	187	46
I	194	45
I	200	44
I	206	42
I	212	42
I	218	40
I	224	38
I	230	36
I	236	34
I	242	33
I	248	31
I	254	28
I	260	26
I	266	25
I	273	23
I	278	21
I	285	20
I	291	19



ROUND NUMBER 885 CONTINUED

I	297	19
I	303	19
I	309	18
I	315	18
I	321	17
I		

ROUND NUMBER -- 917

PROJECTILE MASS (GM) --13.608

PROJECTILE TYPE --REM,L,41MAG

PROJECTILE VELOCITY (MPS) --332.23

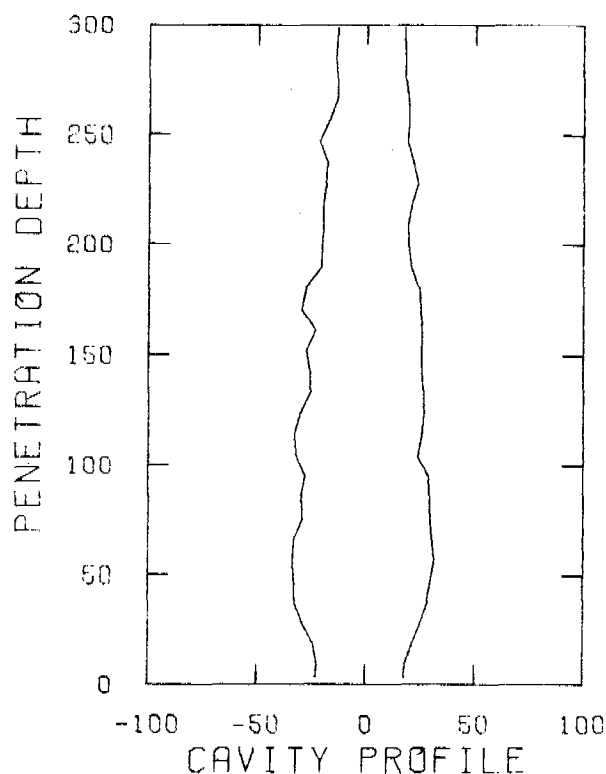
PROJECTILE DIAMETER (CM) -- 10.439

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-10	64	66
17	116	239
54	91	221
87	107	210
127	90	190
179	87	88
206	78	195

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	20
I 9	20
I 19	22
I 28	27
I 37	20
I 47	31
I 56	32
I 66	31
I 76	29
I 85	29
I 95	28
I 104	27
I 114	29
I 123	28
I 133	23
I 142	25
I 152	26
I 161	24
I 171	27
I 190	26
I 190	20
I 199	19
I 209	19
I 218	20
I 228	21
I 237	19
I 247	20
I 257	18
I 266	16
I 276	15
I 286	16
I 294	15
I 304	14
I 314	13
I 323	14



ROUND NUMBER -- 916

PROJECTILE MASS (GM) --13.608

PROJECTILE TYPE --REM,L,41MAG

PROJECTILE VELOCITY (MPS) --352.65

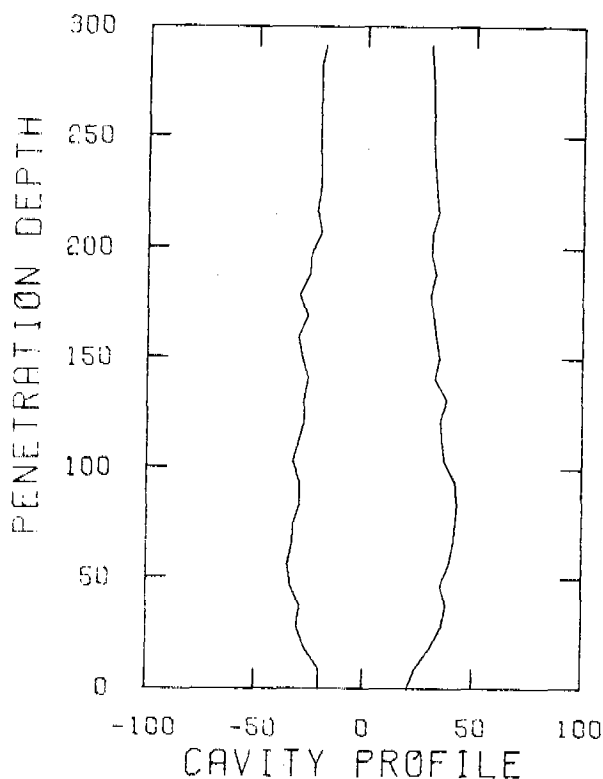
PROJECTILE DIAMETER (CM) -- 10.439

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-5	81	31
23	76	76
63	108	223
93	101	259
139	99	265
194	149	260
220	184	250

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	20
I 9	22
I 15	28
I 28	33
I 37	35
I 47	34
I 56	37
I 65	37
I 75	37
I 84	36
I 93	35
I 102	34
I 112	32
I 122	31
I 131	32
I 141	29
I 150	31
I 159	31
I 169	28
I 178	30
I 188	28
I 197	27
I 206	25
I 216	27
I 225	26
I 235	26
I 244	25
I 253	25
I 263	25
I 272	25
I 282	25
I 291	24
I 300	22
I 310	20
I 319	18



ROUND NUMBER -- 915

PROJECTILE MASS (GM) --13.608

PROJECTILE TYPE --REM,L,41MAG

PROJECTILE VELOCITY (MPS) --384.66

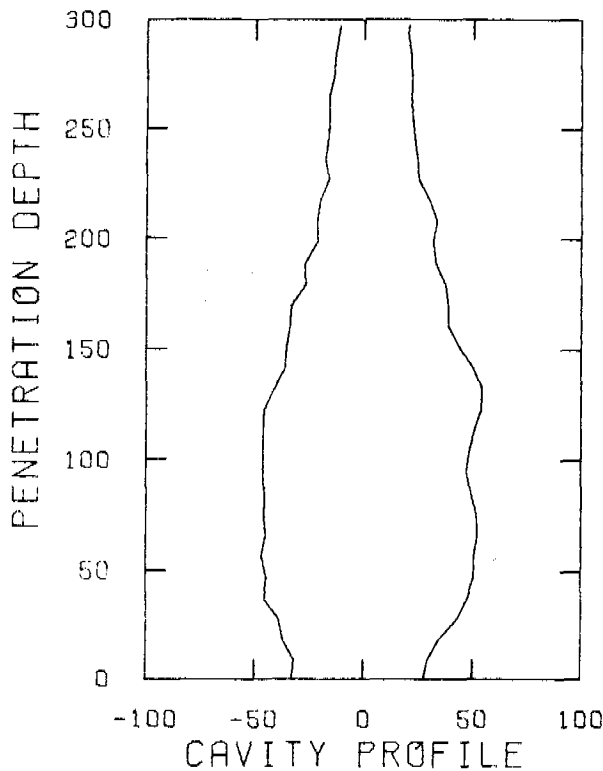
PROJECTILE DIAMETER (CM) -- 10.439

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-5	128	133
32	160	160
53	173	175
94	157	318
138	152	325
169	133	334
195	136	346

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	30
I 9	30
I 18	35
I 28	41
I 37	46
I 47	47
I 57	48
I 66	48
I 75	48
I 85	47
I 94	46
I 104	47
I 113	48
I 123	49
I 132	47
I 141	45
I 151	39
I 161	36
I 170	35
I 179	32
I 189	29
I 198	26
I 208	27
I 217	25
I 227	20
I 236	21
I 246	19
I 255	18
I 265	18
I 274	17
I 284	17
I 293	15
I 302	15
I 312	15
I 321	14



ROUND NUMBER -- 914

PROJECTILE MASS (GM) --13,408

PROJECTILE TYPE --REM,L,41MAG

PROJECTILE VELOCITY (MPS) --435.56

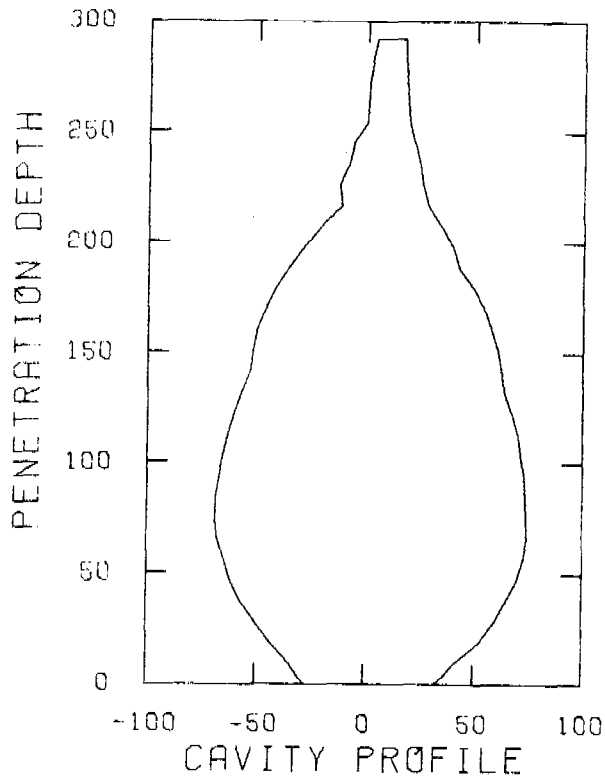
PROJECTILE DIAMETER (CM) -- 10.439

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	117	207
27	206	208
66	207	208
96	209	211
127	216	216
164	237	238
178	224	230

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	30
I 9	37
I 19	48
I 28	53
I 37	61
I 47	55
I 56	68
I 65	71
I 75	71
I 85	71
I 94	69
I 103	68
I 113	66
I 122	67
I 132	60
I 141	57
I 150	56
I 160	53
I 169	50
I 179	45
I 183	39
I 198	34
I 207	27
I 216	19
I 226	18
I 235	16
I 245	13
I 254	9
I 263	9
I 273	8
I 282	7
I 292	6



ROUND NUMBER -- 885

PROJECTILE MASS (GM) --14.904

PROJECTILE TYPE --REM,MC,45ACP

PROJECTILE VELOCITY (MPS) --379.17

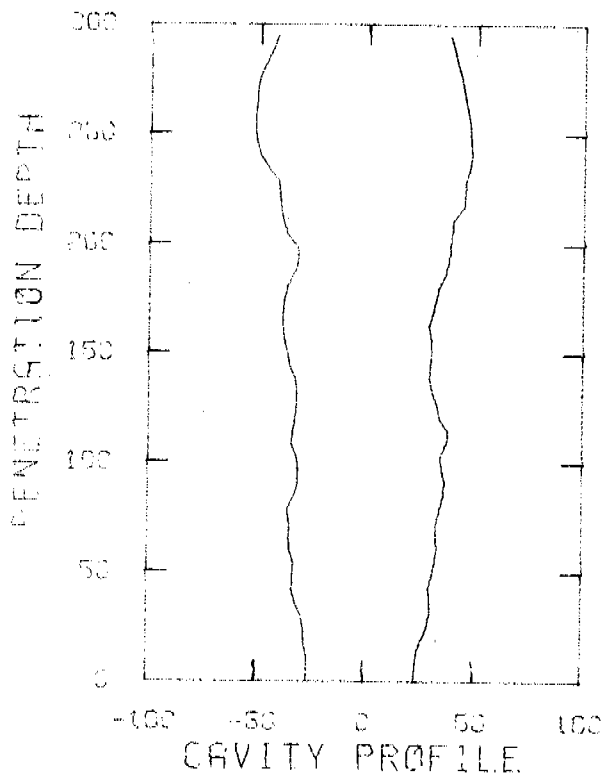
PROJECTILE DIAMETER (CM) -- 11.430

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-5	102	102
27	89	229
70	100	187
112	107	234
158	117	153
225	103	163
252	125	138

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	24
I	6	24
I	11	25
I	17	26
I	24	28
I	30	29
I	35	31
I	42	31
I	48	32
I	54	32
I	60	34
I	66	33
I	72	33
I	78	35
I	84	34
I	90	33
I	96	33
I	102	32
I	108	35
I	114	35
I	120	33
I	126	32
I	132	31
I	138	30
I	144	32
I	150	33
I	156	35
I	162	33
I	168	34
I	174	35
I	180	35
I	186	35
I	192	34
I	198	35
I	204	37
I	210	39
I	216	42
I	222	43
I	228	43
I	234	46
I	240	48
I	246	49
I	252	49
I	258	49
I	264	48
I	270	47
I	276	45
I	282	43



ROUND NUMBER 885 CONTINUED

I	288	41
I	294	39
I	300	37
I	306	35
I	312	34
I	318	34

ROUND NUMBER -- 884

PROJECTILE MASS (GM) --11.988

PROJECTILE TYPE --REM,WC,45ACP

PROJECTILE VELOCITY (MPS) --374.90

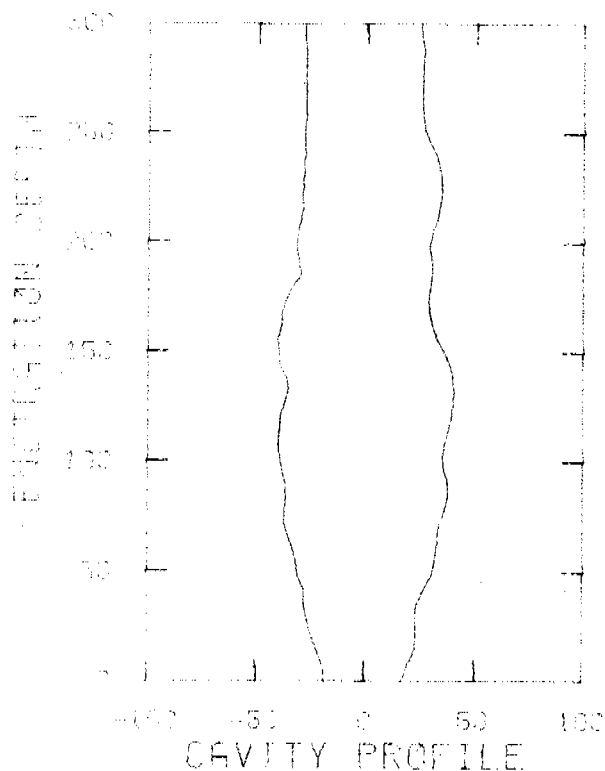
PROJECTILE DIAMETER (CM) -- 11.455

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-8	112	113
21	102	133
62	90	141
99	109	143
140	83	175
195	175	177
219	163	174

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	18
I	6	19
I	12	21
I	13	23
I	24	24
I	29	25
I	36	26
I	42	27
I	48	30
I	53	32
I	60	33
I	66	34
I	72	36
I	78	37
I	83	37
I	89	37
I	96	37
I	101	37
I	107	38
I	119	39
I	125	38
I	131	38
I	137	38
I	143	38
I	149	38
I	156	36
I	161	34
I	167	33
I	173	32
I	179	31
I	185	29
I	191	30
I	197	30
I	203	30
I	209	31
I	215	31
I	221	32
I	227	31
I	234	30
I	240	29
I	245	28
I	251	27
I	257	26
I	263	26
I	269	26
I	275	26
I	282	26
I	287	26



ROUND NUMBER 884 CONTINUED

I	294	26
I	299	26
I	305	25
I	311	25
I	317	25
I	323	25
I	329	25
I	335	25
I	341	25

ROUND NUMBER - 175

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -SIERRA, JHP

PROJECTILE VELOCITY (MPS) -240.19

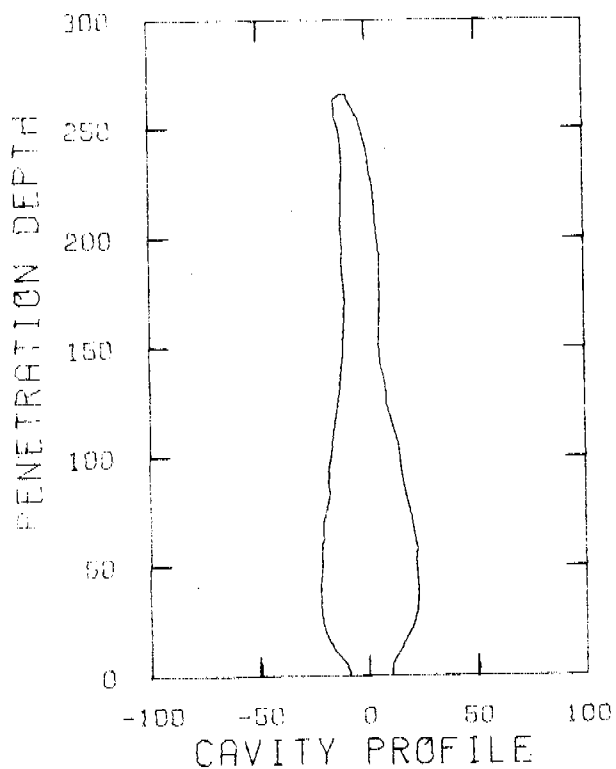
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
6	59	58
26	60	60
50	66	66
72	67	68
96	62	62

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	9
I	5	10
I	11	15
I	17	18
I	23	21
I	29	22
I	35	22
I	41	22
I	47	22
I	53	21
I	59	21
I	65	21
I	71	20
I	77	18
I	82	17
I	88	16
I	94	16
I	100	15
I	106	14
I	112	13
I	118	12
I	124	10
I	130	10
I	136	9
I	142	8
I	147	8
I	154	7
I	159	8
I	165	8
I	171	7
I	177	8
I	183	8
I	189	8
I	195	8
I	201	7
I	207	7
I	213	7
I	219	7
I	225	6
I	231	5
I	236	5
I	242	5
I	248	5
I	254	5
I	260	3
I	263	3
I	266	0
I	0	0



ROUND NUMBER - 174

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -SIERRA, JHP

PROJECTILE VELOCITY (MPS) -285.66

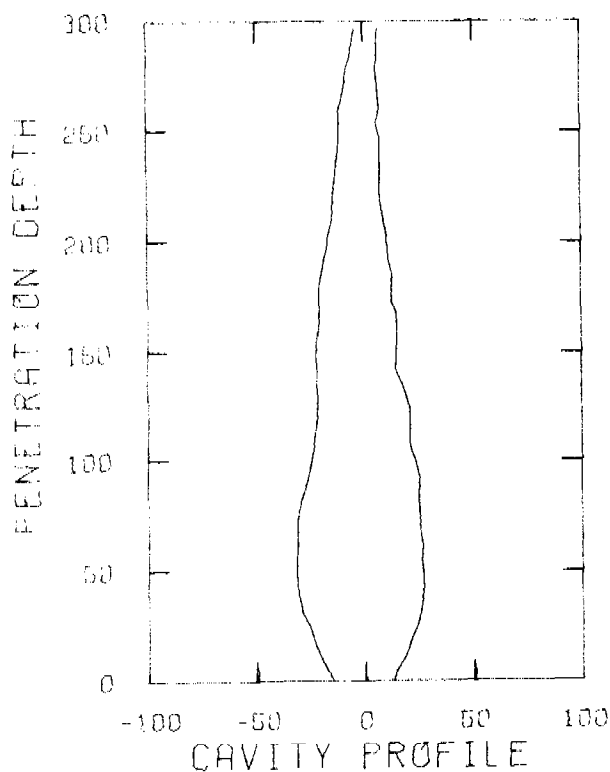
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
11	66	66
34	81	81
62	85	85
89	83	83
115	85	88

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	13
I	6	16
I	12	20
I	18	22
I	24	24
I	30	27
I	36	28
I	43	29
I	49	29
I	55	29
I	61	29
I	67	28
I	74	28
I	80	27
I	86	26
I	92	25
I	98	24
I	104	22
I	111	21
I	117	21
I	123	21
I	129	20
I	136	19
I	142	17
I	148	18
I	154	18
I	160	17
I	166	17
I	172	16
I	179	16
I	185	16
I	191	14
I	197	13
I	204	13
I	210	11
I	216	10
I	222	10
I	228	10
I	234	9
I	240	9
I	247	9
I	253	8
I	259	9
I	266	8
I	271	7
I	278	6
I	284	6
I	290	5



ROUND NUMBER 174 CONTINUED

I	296	5
I	303	5
I	309	5
I	311	4
I	315	2
I	0	0

ROUND NUMBER - 173

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE - SIERRA, JHP

PROJECTILE VELOCITY (MPS) - 329.16

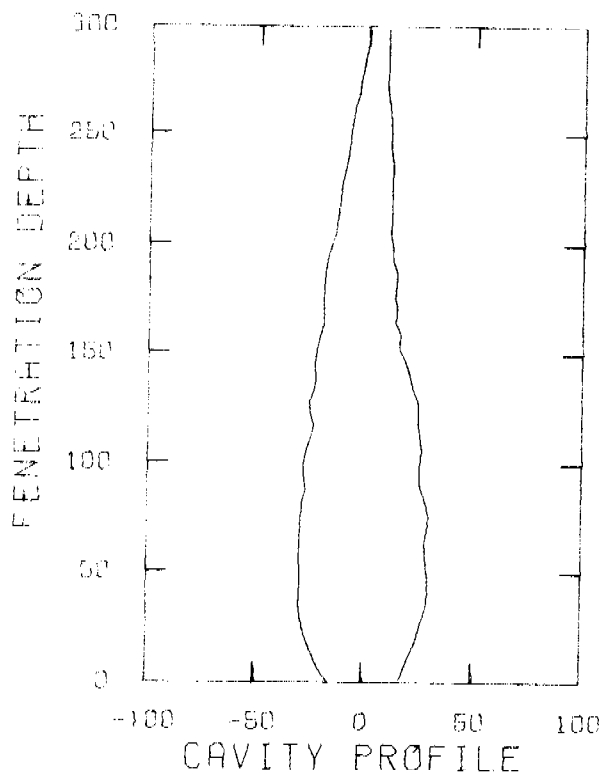
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
15	74	74
41	76	76
73	80	80
103	66	66
134	74	74

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	16
I	5	19
I	11	22
I	17	25
I	23	26
I	29	28
I	35	29
I	41	29
I	47	29
I	52	29
I	58	29
I	64	29
I	70	29
I	76	29
I	81	28
I	87	26
I	93	26
I	99	26
I	105	26
I	111	25
I	117	23
I	122	24
I	128	24
I	134	22
I	140	21
I	146	20
I	151	18
I	157	18
I	163	16
I	169	16
I	175	16
I	181	16
I	187	16
I	192	14
I	198	13
I	204	12
I	210	12
I	216	12
I	221	11
I	228	11
I	233	10
I	239	9
I	245	9
I	251	9
I	257	8
I	263	7
I	268	6
I	274	5



ROUND NUMBER 173 CONTINUED

I	280	5
I	286	4
I	292	4
I	298	3
I	304	3
I	309	3
I	315	3
I	319	3
I	0	0

ROUND NUMBER - 194

PROJECTILE MASS (GM)- 7.128

PROJECTILE TYPE -SIERRA, JHP

PROJECTILE VELOCITY (MPS) -342.09

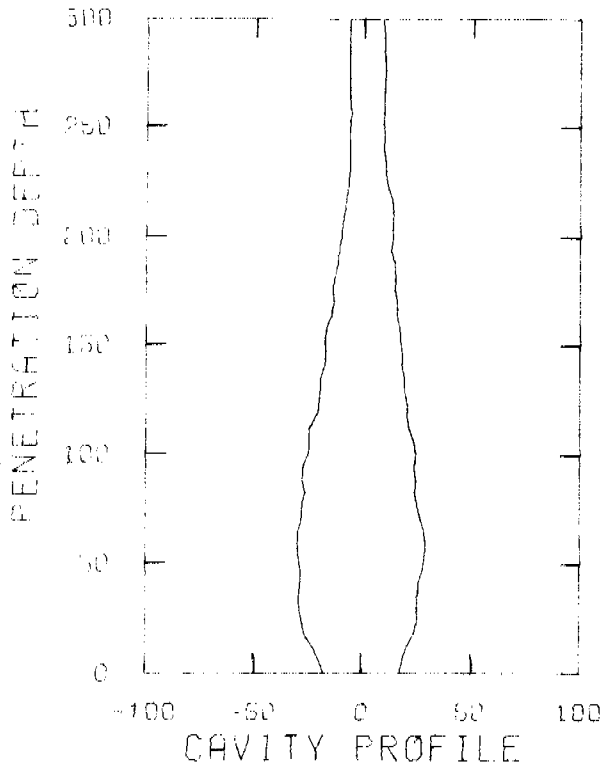
PROJECTILE DIAMETER (CM) - .937

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
12	82	82
40	66	66
73	75	75
104	76	76
136	74	74

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	17
I	5	19
I	11	21
I	17	25
I	23	26
I	29	27
I	35	27
I	41	27
I	47	28
I	52	29
I	58	29
I	64	29
I	70	27
I	76	26
I	82	25
I	88	26
I	94	25
I	100	24
I	105	24
I	111	22
I	117	20
I	123	20
I	129	19
I	134	19
I	140	17
I	146	17
I	152	17
I	158	16
I	164	14
I	170	14
I	175	13
I	181	13
I	187	12
I	193	11
I	199	11
I	205	11
I	211	10
I	217	10
I	223	8
I	228	8
I	234	7
I	240	7
I	246	7
I	252	7
I	258	7
I	264	7
I	270	8
I	275	8



ROUND NUMBER 194 CONTINUED

I	281	7
I	287	7
I	293	7
I	299	7
I	305	6
I	310	6
I	316	6
I	322	6
I	324	6

ROUND NUMBER - 172

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -SIERRA, JHP

PROJECTILE VELOCITY (MPS) -391.77

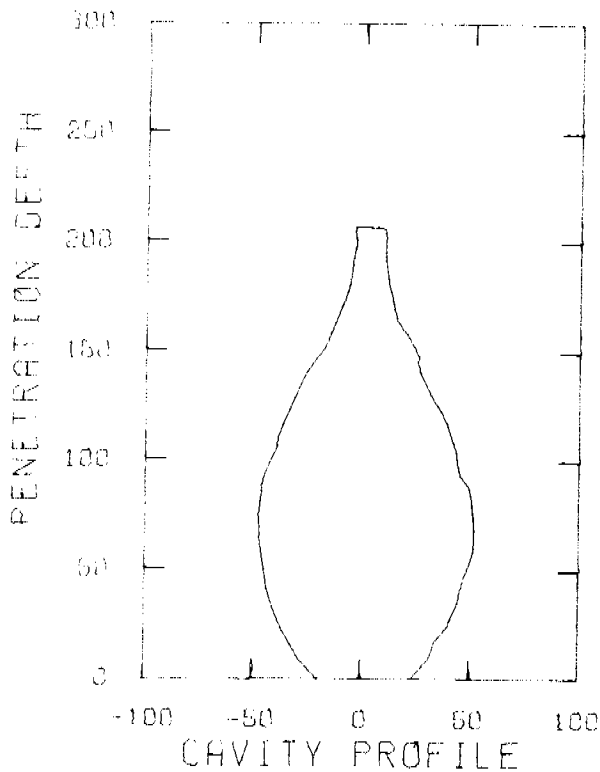
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
16	191	191
44	172	182
75	210	212
101	206	210
122	208	212

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	21
I 5	26
I 11	31
I 17	33
I 23	38
I 29	40
I 34	43
I 40	44
I 46	46
I 52	47
I 58	49
I 64	49
I 69	49
I 75	49
I 81	49
I 87	48
I 93	45
I 99	43
I 105	41
I 110	39
I 116	37
I 122	34
I 127	31
I 134	28
I 139	26
I 145	23
I 146	23
I 151	20
I 157	17
I 163	14
I 168	12
I 174	10
I 180	8
I 186	7
I 192	7
I 198	6
I 201	6
I 204	6
I 205	6
I 206	4
I 0	0
I 0	0



ROUND NUMBER - 195

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE - SIERRA, JHP

PROJECTILE VELOCITY (MPS) - 393.29

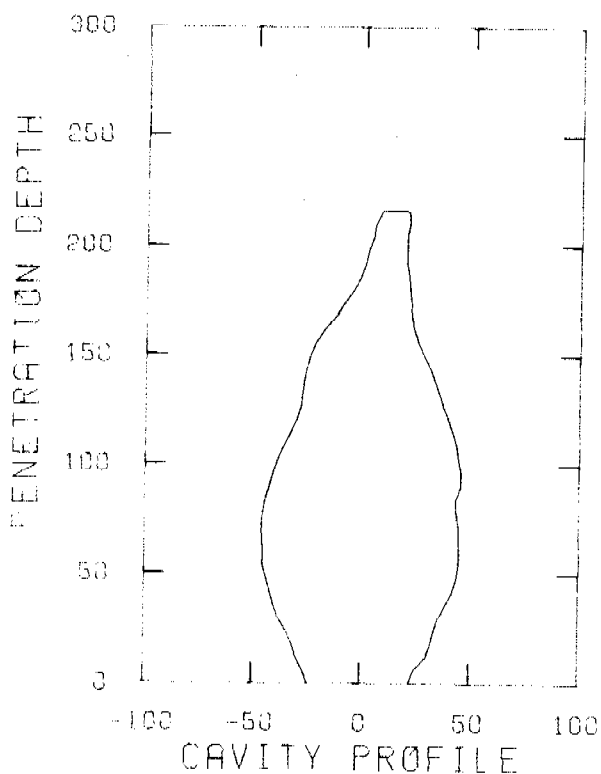
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
14	79	79
43	125	127
74	200	200
99	143	175
123	159	172

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	23
I	6	25
I	12	29
I	18	32
I	24	34
I	29	37
I	36	39
I	41	42
I	47	43
I	53	45
I	59	45
I	65	45
I	72	45
I	78	44
I	83	43
I	89	44
I	95	43
I	101	41
I	107	39
I	113	37
I	119	34
I	126	32
I	131	31
I	137	30
I	144	28
I	150	26
I	156	23
I	161	20
I	168	17
I	174	15
I	179	12
I	185	10
I	192	9
I	197	8
I	203	7
I	210	7
I	215	6
I	216	5
I	0	0



ROUND NUMBER - 193

PROJECTILE MASS (GM)- 7.128

PROJECTILE TYPE -SIERRA, JHP

PROJECTILE VELOCITY (MPS) -439.83

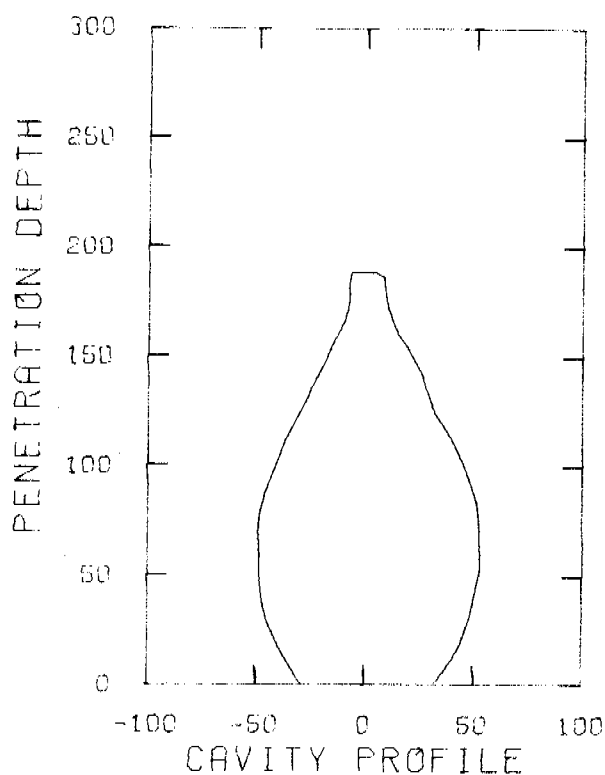
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
15	102	102
45	217	217
77	249	249
101	249	249
122	228	228

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	30
I	6	34
I	12	38
I	17	41
I	23	44
I	29	46
I	35	48
I	41	49
I	47	50
I	53	51
I	59	51
I	65	51
I	71	51
I	77	50
I	83	49
I	89	47
I	95	45
I	100	42
I	107	40
I	112	37
I	118	34
I	124	30
I	130	28
I	136	25
I	142	23
I	148	20
I	154	17
I	160	13
I	166	10
I	172	8
I	178	7
I	184	7
I	186	7
I	188	5
I	0	0
I	0	0



ROUND NUMBER - 179

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -SIERRA, JHP

PROJECTILE VELOCITY (MPS) -229.52

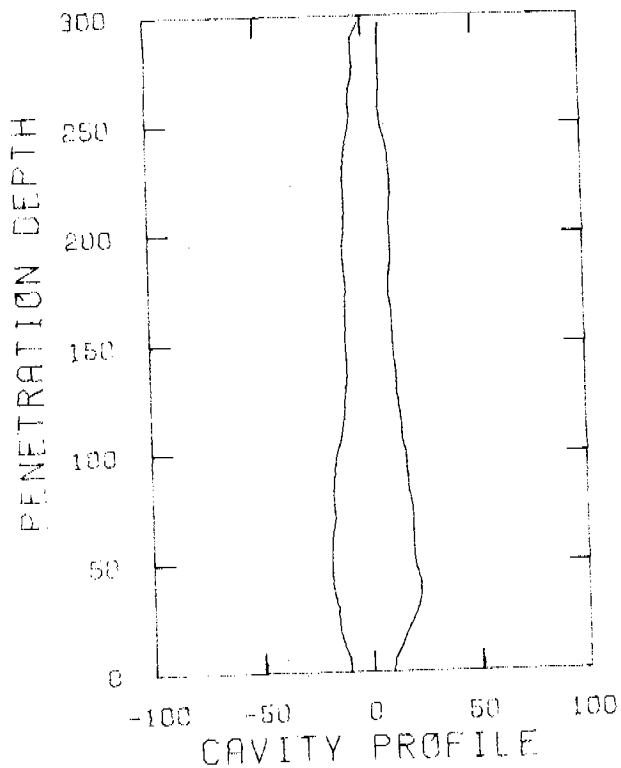
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
10	55	55
29	60	61
53	59	59
77	63	63
102	62	62

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	9
I 6	10
I 11	13
I 18	15
I 23	17
I 29	18
I 35	20
I 41	20
I 47	19
I 53	19
I 59	18
I 65	18
I 71	17
I 77	17
I 83	17
I 88	16
I 95	16
I 101	15
I 106	13
I 112	13
I 118	12
I 124	11
I 130	11
I 136	11
I 142	10
I 148	10
I 154	10
I 159	10
I 166	10
I 171	9
I 177	9
I 183	10
I 189	11
I 195	11
I 201	10
I 207	10
I 213	10
I 219	10
I 225	10
I 231	10
I 236	9
I 242	8
I 248	7
I 254	6
I 260	6
I 266	6
I 272	6
I 278	5



ROUND NUMBER 179 CONTINUED

I	284	6
I	290	6
I	296	4
I	300	3
I	301	1
I	0	0

ROUND NUMBER - 178

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -SIERRA, JHP

PROJECTILE VELOCITY (MPS) -274.10

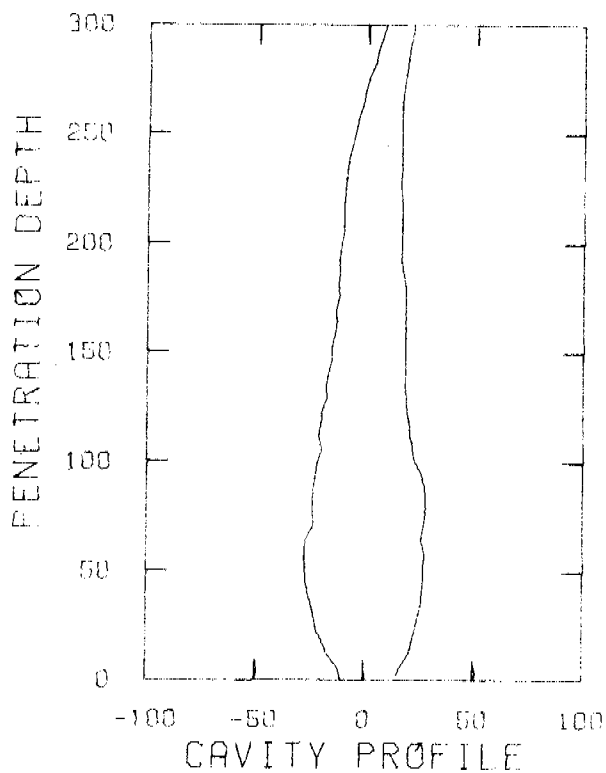
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
11	71	71
34	80	81
61	68	68
88	73	73
115	70	75

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	12
I	5	14
I	11	18
I	17	20
I	23	22
I	29	24
I	35	25
I	41	26
I	47	27
I	52	27
I	58	27
I	64	26
I	70	25
I	76	25
I	82	25
I	88	25
I	94	24
I	100	22
I	105	20
I	111	20
I	117	19
I	123	19
I	129	18
I	135	17
I	140	17
I	146	16
I	152	16
I	158	16
I	164	15
I	170	15
I	176	15
I	182	15
I	188	14
I	193	13
I	199	13
I	205	13
I	211	13
I	217	13
I	223	12
I	229	12
I	234	12
I	240	11
I	246	11
I	252	10
I	258	9
I	264	8
I	270	8
I	276	8



ROUND NUMBER 178 CONTINUED

I	282	7
I	287	7
I	293	6
I	299	6
I	305	5
I	311	5
I	317	4
I	0	3
I	0	0

ROUND NUMBER - 177

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -SIERRA, JHP

PROJECTILE VELOCITY (MPS) -329.51

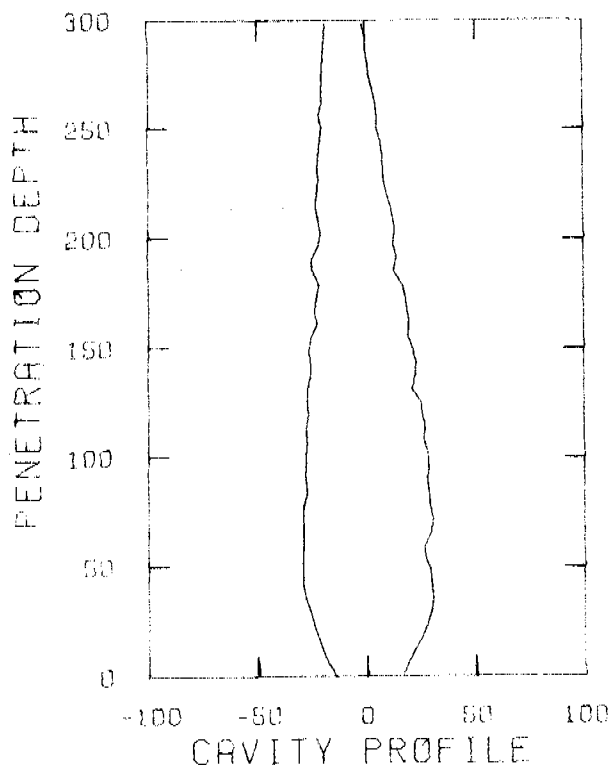
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	66	66
40	66	66
74	58	58
106	76	77
140	74	74

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	15
I	6	18
I	11	21
I	17	24
I	23	26
I	29	28
I	35	29
I	41	29
I	47	29
I	53	28
I	59	27
I	65	29
I	71	30
I	77	29
I	83	27
I	89	28
I	95	28
I	101	28
I	107	26
I	113	27
I	119	25
I	125	25
I	131	23
I	136	23
I	142	24
I	148	23
I	155	22
I	161	21
I	166	21
I	172	20
I	178	18
I	184	18
I	190	19
I	196	16
I	203	16
I	208	16
I	214	16
I	220	15
I	226	14
I	232	14
I	238	14
I	244	13
I	250	12
I	256	12
I	262	11
I	268	11
I	274	10
I	279	10



ROUND NUMBER 177 CONTINUED

I	286	9
I	292	9
I	298	8
I	304	7
I	310	7
I	315	7
I	322	7
I	326	6
I	0	0

ROUND NUMBER - 196

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE - SIERRA, JHP

PROJECTILE VELOCITY (MPS) - 342.47

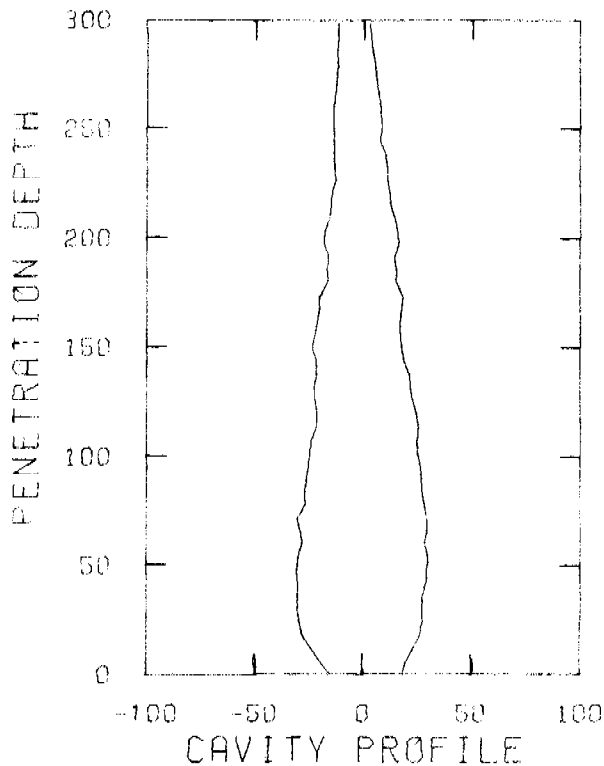
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	63	64
41	64	64
75	58	56
108	51	51
142	61	61

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	16
5	20
11	23
17	27
23	28
29	29
35	29
41	29
47	30
53	30
59	28
65	29
71	29
77	27
83	27
89	26
95	25
101	24
107	24
113	23
119	22
125	22
131	22
137	21
143	20
149	20
155	19
161	18
167	18
173	19
179	15
184	15
190	15
196	17
202	16
208	14
214	13
220	13
226	11
232	11
238	11
244	10
250	11
256	10
262	10
268	9
274	8
280	8



ROUND NUMBER 196 CONTINUED

I	286	7
I	292	7
I	298	6
I	304	6
I	310	5
I	316	6
I	322	6
I	0	0
I	0	0

ROUND NUMBER - 185

PROJECTILE MASS (GM) - 9.720

PROJECTILE TYPE -SIERRA, JHP

PROJECTILE VELOCITY (MPS) -291.95

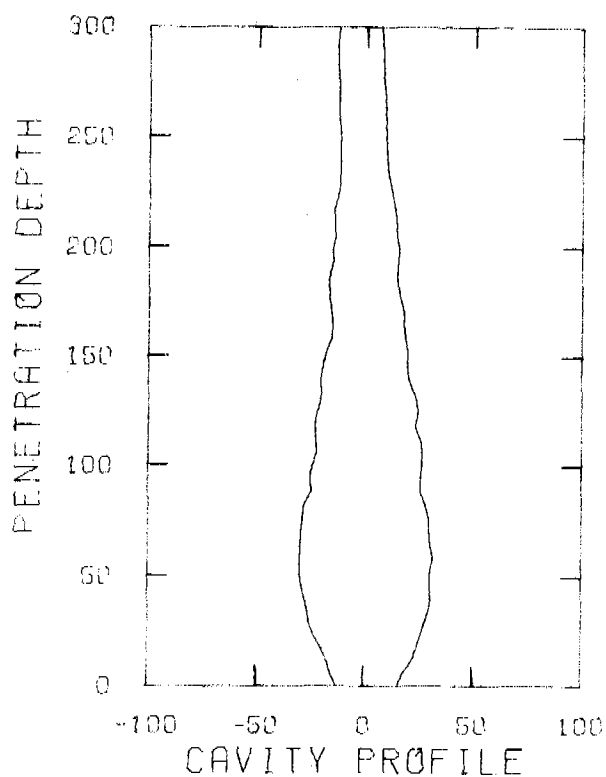
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
12	76	76
36	85	85
67	88	88
96	91	91
126	87	87

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	14
I 5	16
I 11	19
I 17	22
I 23	24
I 29	27
I 35	28
I 41	29
I 46	29
I 52	30
I 58	30
I 64	30
I 70	29
I 76	29
I 81	28
I 87	25
I 93	25
I 99	25
I 105	24
I 111	24
I 117	23
I 123	23
I 129	22
I 134	20
I 140	19
I 146	19
I 152	18
I 158	16
I 164	16
I 170	16
I 175	16
I 181	15
I 187	15
I 193	14
I 199	15
I 205	13
I 211	13
I 217	13
I 222	12
I 228	11
I 234	10
I 240	10
I 246	10
I 252	10
I 258	10
I 264	10
I 269	10
I 275	10



ROUND NUMBER - 176

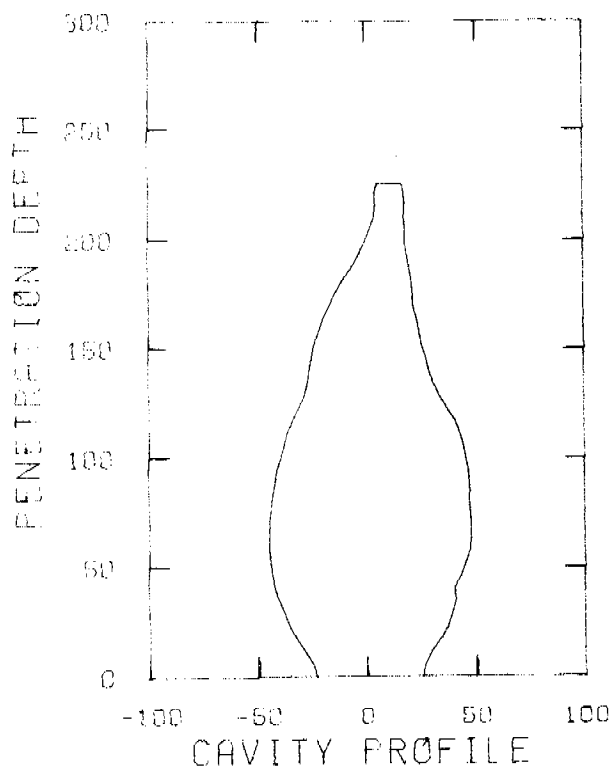
PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -SIERRA, JHP

PROJECTILE VELOCITY (MPS) -387.29

PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION			CAVITY MEASUREMENTS	
PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
16	91	91	0	24
44	148	156	5	26
76	177	182	11	29
102	163	227	17	33
126	132	211	23	36



I	29	38
I	35	40
I	40	41
I	46	43
I	52	45
I	58	46
I	64	46
I	70	46
I	76	45
I	81	45
I	87	44
I	93	44
I	99	42
I	105	40
I	111	39
I	117	37
I	122	34
I	128	30
I	134	28
I	140	27
I	146	25
I	151	24
I	157	22
I	163	21
I	169	19
I	175	17
I	181	15
I	187	12
I	192	10
I	198	8
I	204	7
I	210	6
I	216	6
I	221	6
I	225	5
I	0	0
I	0	0

ROUND NUMBER - 197

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -SIERRA, JHP

PROJECTILE VELOCITY (MPS) -414.13

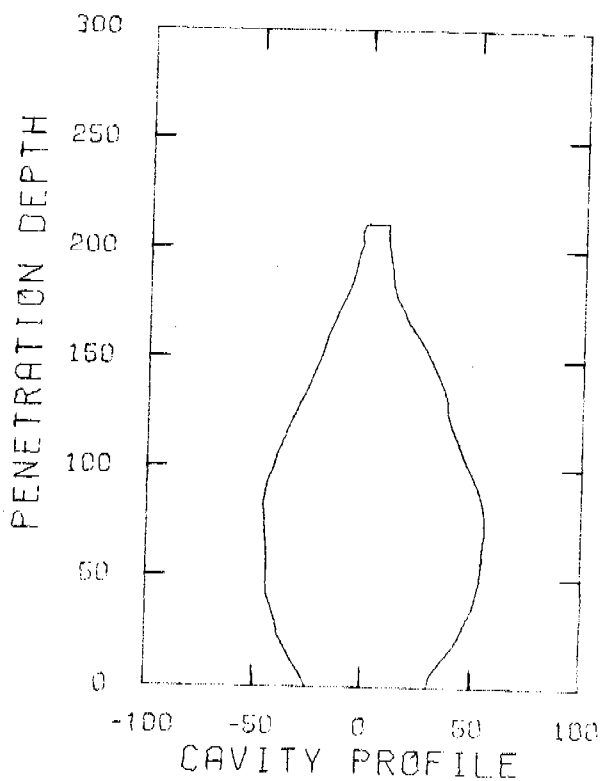
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
17	71	71
45	192	192
77	207	209
102	162	190
126	187	203

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	27
I 5	30
I 11	34
I 17	38
I 23	42
I 29	44
I 35	46
I 41	48
I 47	49
I 53	49
I 59	49
I 65	50
I 71	50
I 77	50
I 83	50
I 89	49
I 94	46
I 100	44
I 106	42
I 112	39
I 119	37
I 124	34
I 130	33
I 136	30
I 142	28
I 148	25
I 154	23
I 160	20
I 166	17
I 172	14
I 178	11
I 184	9
I 190	8
I 196	7
I 201	5
I 208	5
I 211	5
I 0	0
I 0	0



ROUND NUMBER - 187

PROJECTILE MASS (GM) - 9.720

PROJECTILE TYPE -SIERRA, JHP

PROJECTILE VELOCITY (MPS) -152.02

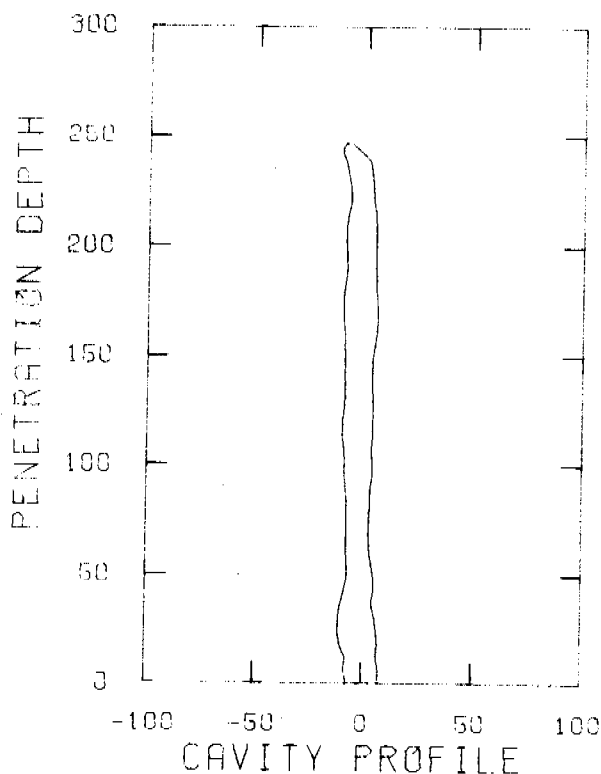
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
4	52	52
22	57	57
36	54	54
53	59	59
72	54	55

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	7
I	5	8
I	12	7
I	17	8
I	24	8
I	29	8
I	35	7
I	41	6
I	48	6
I	53	5
I	59	5
I	65	5
I	71	4
I	77	5
I	83	5
I	89	5
I	95	6
I	101	6
I	107	6
I	113	7
I	119	7
I	125	6
I	131	6
I	137	6
I	143	6
I	149	6
I	155	7
I	161	7
I	167	8
I	173	7
I	179	7
I	185	6
I	191	6
I	197	6
I	203	7
I	209	6
I	215	6
I	220	5
I	227	5
I	233	5
I	238	5
I	241	4
I	244	3
I	246	1
I	0	0



ROUND NUMBER - 186

PROJECTILE MASS (GM) - 9.720

PROJECTILE TYPE -SIERRA, JHP

PROJECTILE VELOCITY (MPS) -245.21

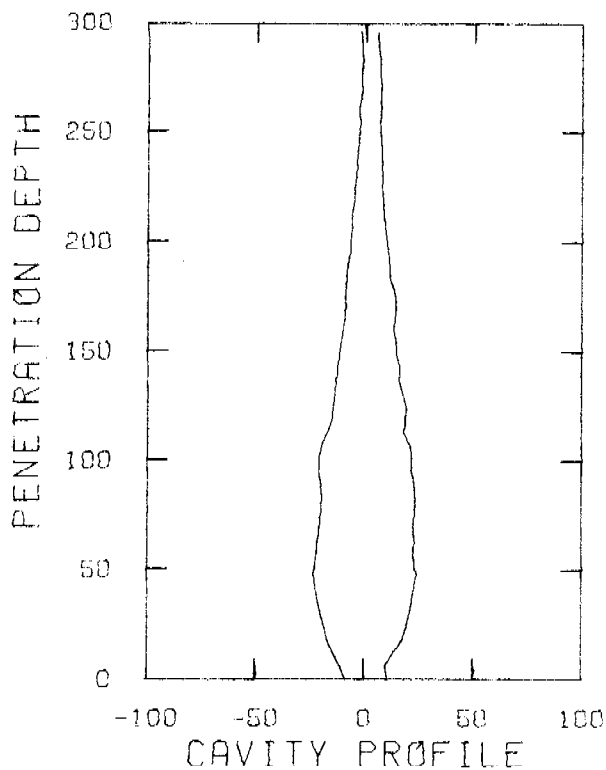
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
10	54	55
31	71	71
56	67	67
81	74	74
105	70	70

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	9
I	5	10
I	11	13
I	17	17
I	23	19
I	29	20
I	35	21
I	41	22
I	47	23
I	53	22
I	59	22
I	65	22
I	71	21
I	76	21
I	82	21
I	88	21
I	94	21
I	100	21
I	106	20
I	112	17
I	118	16
I	124	16
I	129	15
I	136	14
I	142	14
I	147	12
I	153	12
I	159	11
I	165	11
I	171	11
I	177	10
I	183	9
I	189	9
I	195	8
I	201	8
I	207	7
I	213	6
I	219	6
I	224	5
I	230	5
I	236	5
I	242	5
I	248	4
I	254	4
I	260	4
I	266	4
I	272	4
I	278	3



ROUND NUMBER 186 CONTINUED

I	284	3
I	289	3
I	295	3
I	301	3
I	307	3
I	313	3
I	319	3
I	324	3
I	0	0

ROUND NUMBER 185 CONTINUED

I	281	10
I	287	10
I	293	9
I	299	9
I	305	9
I	310	8
I	316	8
I	319	8
I	0	0

ROUND NUMBER - 198

PROJECTILE MASS (GM) - 9.720

PROJECTILE TYPE -SIERRA, JHP

PROJECTILE VELOCITY (MPS) -341.32

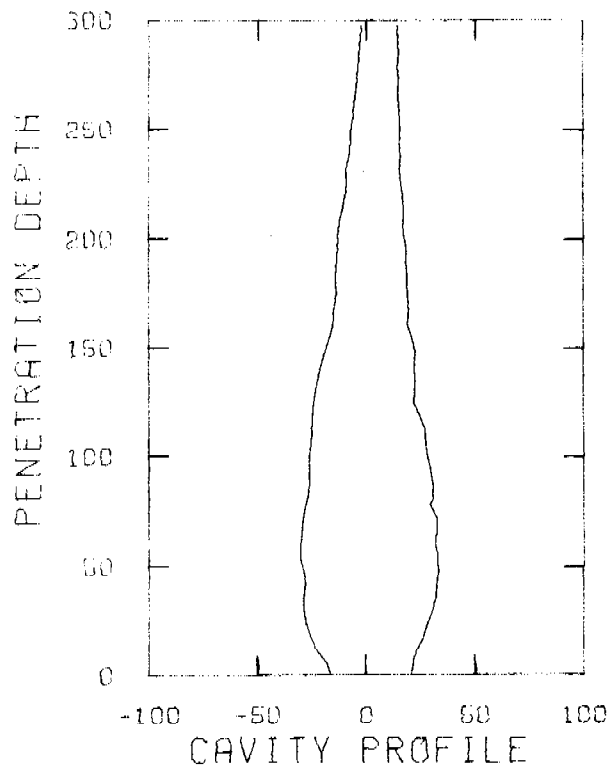
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
15	58	58
42	57	57
77	58	58
110	60	61
143	63	63

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	18
I 5	19
I 11	23
I 17	26
I 23	28
I 29	29
I 35	30
I 41	30
I 47	31
I 53	31
I 59	31
I 65	31
I 71	30
I 77	28
I 83	28
I 89	28
I 95	27
I 101	26
I 106	26
I 113	25
I 118	24
I 125	22
I 130	22
I 136	21
I 142	21
I 148	20
I 154	18
I 160	16
I 166	16
I 172	16
I 178	15
I 184	16
I 190	15
I 196	15
I 202	14
I 208	14
I 214	13
I 220	12
I 226	12
I 231	11
I 237	11
I 244	10
I 249	10
I 255	10
I 261	10
I 267	9
I 273	9
I 279	8



ROUND NUMBER 198 CONTINUED

I	285	8
I	291	8
I	297	7
I	303	7
I	309	7
I	315	7
I	318	7
I	0	0
I	0	0

ROUND NUMBER - 184

PROJECTILE MASS (GM) - 9.720

PROJECTILE TYPE -SIERRA, JHP

PROJECTILE VELOCITY (MPS) -349.54

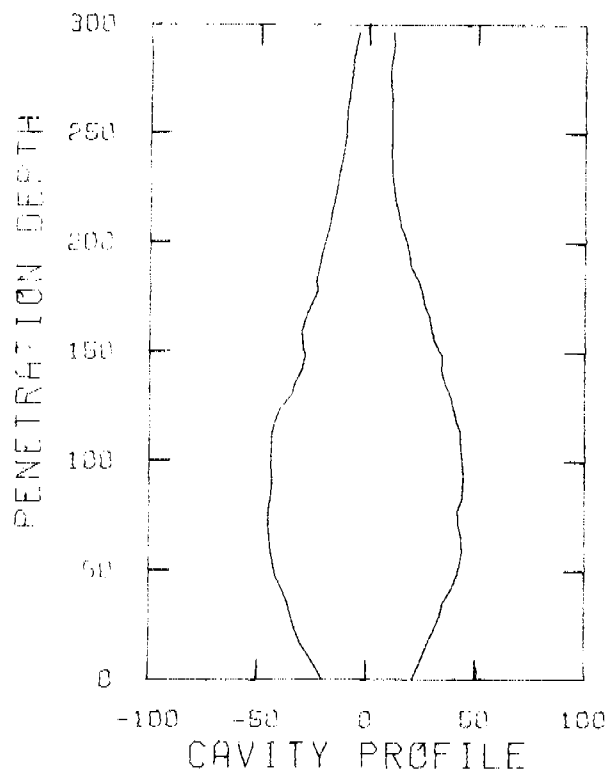
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
15	98	98
43	112	112
76	133	135
104	184	196
131	138	158

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	20
I	5	23
I	11	26
I	17	29
I	23	32
I	29	34
I	35	35
I	41	39
I	47	41
I	53	43
I	59	44
I	65	44
I	70	43
I	76	43
I	82	44
I	88	44
I	94	44
I	100	44
I	106	43
I	112	43
I	118	41
I	124	39
I	130	36
I	136	34
I	141	32
I	147	31
I	153	30
I	159	29
I	165	28
I	171	25
I	177	23
I	183	22
I	189	20
I	195	19
I	201	18
I	207	16
I	212	15
I	219	13
I	225	12
I	230	11
I	236	11
I	242	10
I	248	10
I	254	10
I	260	10
I	266	9
I	272	8
I	278	8



ROUND NUMBER 184 CONTINUED

I	283	8
I	290	8
I	296	7
I	301	6
I	307	6
I	313	5
I	316	5
I	0	0
I	0	0

ROUND NUMBER - 199

PROJECTILE MASS (GM) - 9.720

PROJECTILE TYPE -SIERRA, JHP

PROJECTILE VELOCITY (MPS) -406.94

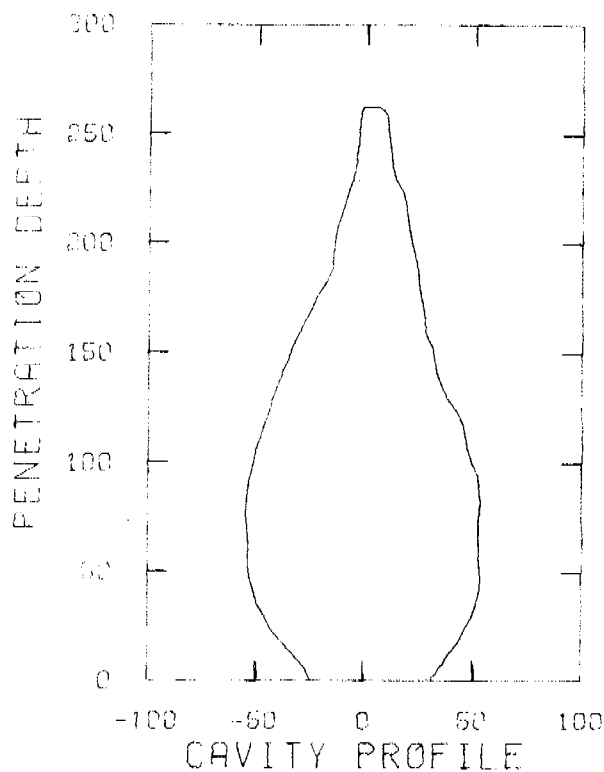
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
15	94	94
44	245	245
79	237	238
109	222	225
136	202	218

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	27
I	5	31
I	11	35
I	17	40
I	23	44
I	29	48
I	35	50
I	41	52
I	47	53
I	52	53
I	59	53
I	64	53
I	70	53
I	76	54
I	82	54
I	88	53
I	94	52
I	100	50
I	105	48
I	111	47
I	117	45
I	123	43
I	129	39
I	135	37
I	141	35
I	147	33
I	152	31
I	158	28
I	164	27
I	170	25
I	176	23
I	182	21
I	188	19
I	194	18
I	200	17
I	205	16
I	211	15
I	217	13
I	223	12
I	229	9
I	235	7
I	241	7
I	247	6
I	253	6
I	258	5
I	261	4
I	262	3
I	0	0



ROUND NUMBER - 183

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -SIERRA, JSP

PROJECTILE VELOCITY (MPS) -190.98

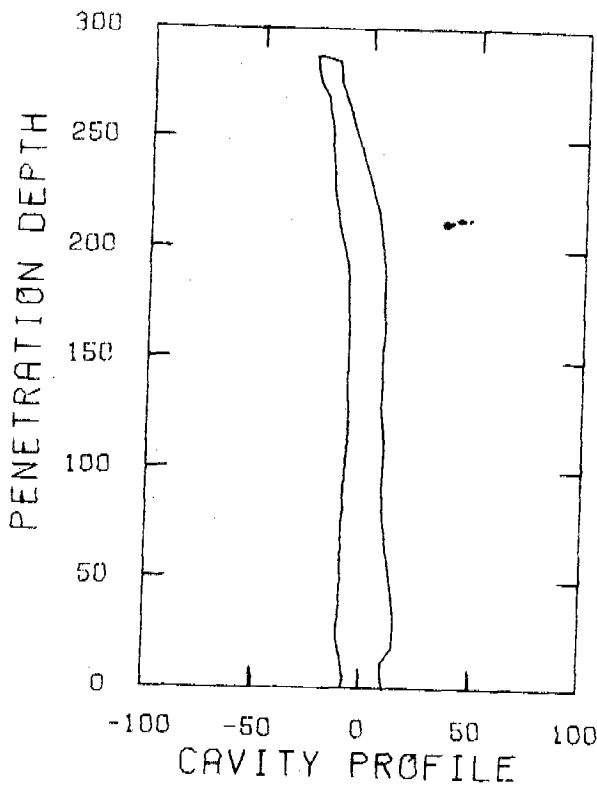
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
7	59	59
24	61	61
45	60	61
67	57	57
89	54	54

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	9
I	5	8
I	11	8
I	17	12
I	23	13
I	29	13
I	35	12
I	40	12
I	46	11
I	52	10
I	58	10
I	64	9
I	70	9
I	76	9
I	81	8
I	88	8
I	93	8
I	99	8
I	105	8
I	111	8
I	117	7
I	123	7
I	128	7
I	134	7
I	140	7
I	146	7
I	152	7
I	158	8
I	164	8
I	169	7
I	175	7
I	181	8
I	187	8
I	193	8
I	199	8
I	205	9
I	211	9
I	217	9
I	222	9
I	228	8
I	234	7
I	240	7
I	246	6
I	252	5
I	257	4
I	263	4
I	269	3
I	275	4



ROUND NUMBER 183 CONTINUED

I	281	5
I	285	5
I	287	1

ROUND NUMBER - 182

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -SIERRA, JSP

PROJECTILE VELOCITY (MPS) -281.70

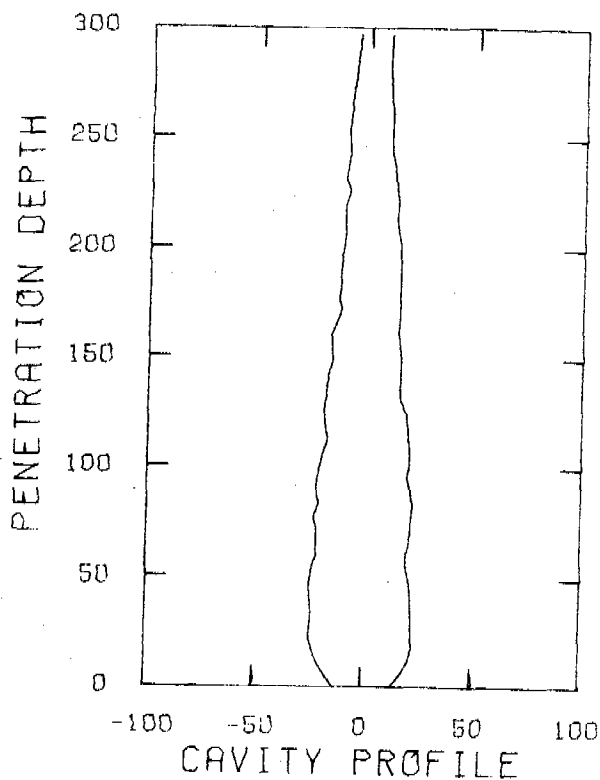
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
14	60	60
37	51	51
66	58	58
95	59	59
125	60	60

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	12
I	5	17
I	11	21
I	17	23
I	23	23
I	29	23
I	35	23
I	41	23
I	47	23
I	53	21
I	59	20
I	65	21
I	71	21
I	77	22
I	83	21
I	88	21
I	94	20
I	100	20
I	106	20
I	112	18
I	118	18
I	124	18
I	130	17
I	136	16
I	142	16
I	148	15
I	154	15
I	160	15
I	166	14
I	172	13
I	178	13
I	183	13
I	190	13
I	196	13
I	201	13
I	207	12
I	213	11
I	219	12
I	225	10
I	231	11
I	237	10
I	243	9
I	249	9
I	255	9
I	261	9
I	267	8
I	272	8
I	279	7



ROUND NUMBER 182 CONTINUED

I	285	7
I	290	7
I	296	7
I	302	6
I	308	6
I	314	6
I	320	6
I	0	0
I	0	0

ROUND NUMBER - 181

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -SIERRA, JSP

PROJECTILE VELOCITY (MPS) -337.54

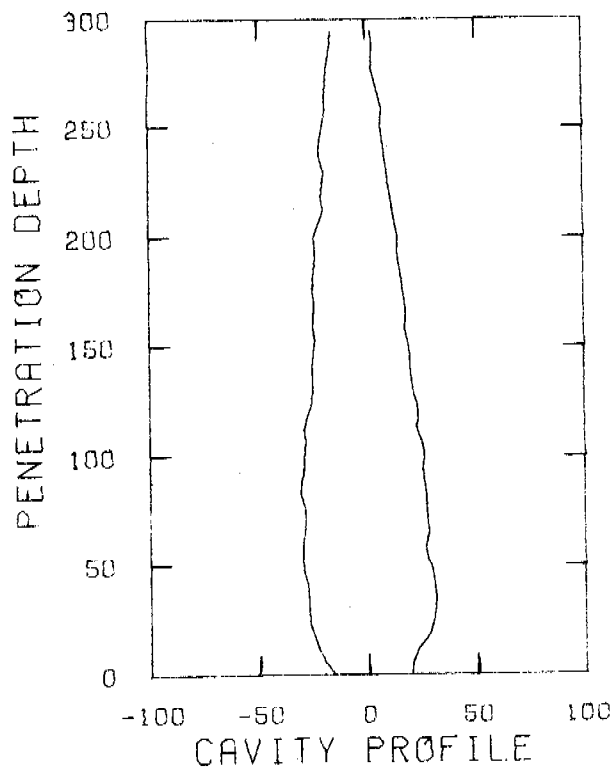
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
17	61	61
45	57	57
79	54	54
112	59	59
146	60	60

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	17
I	5	20
I	11	23
I	17	26
I	23	28
I	29	29
I	35	29
I	41	29
I	47	29
I	53	28
I	59	28
I	64	28
I	70	28
I	76	28
I	82	28
I	88	28
I	94	27
I	100	27
I	106	26
I	112	25
I	117	25
I	123	24
I	129	22
I	135	22
I	141	22
I	147	21
I	153	21
I	158	20
I	164	21
I	170	20
I	176	20
I	182	19
I	188	19
I	194	18
I	200	18
I	206	17
I	212	15
I	218	15
I	223	14
I	229	14
I	235	14
I	241	14
I	247	13
I	253	12
I	258	12
I	264	12
I	270	11
I	276	10



ROUND NUMBER 181 CONTINUED

I	282	9
I	288	9
I	294	8
I	300	7
I	306	7
I	311	7
I	318	6
I	0	0
I	0	0

ROUND NUMBER - 207

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE - SIERRA, JSP

PROJECTILE VELOCITY (MPS) - 356.49

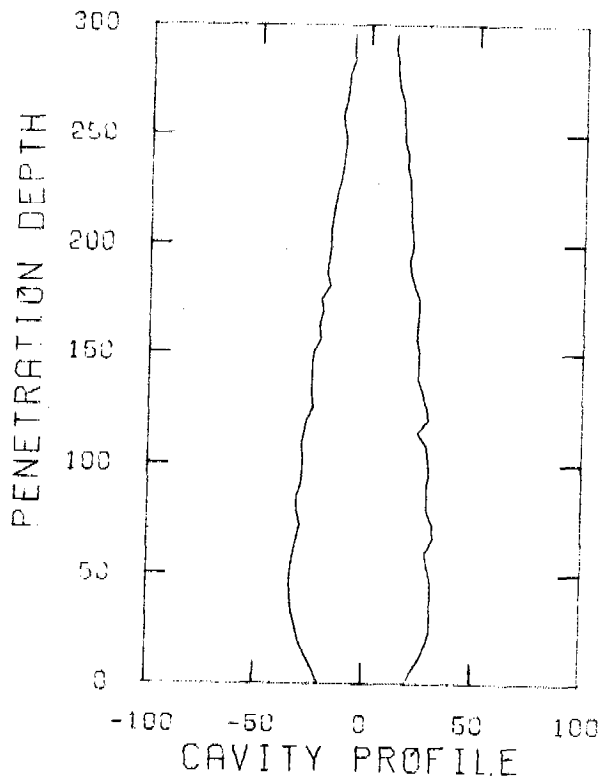
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
12	63	63
41	66	66
77	62	62
111	72	72
147	69	69

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	19
I	5	22
I	12	26
I	18	29
I	24	30
I	29	31
I	36	32
I	42	32
I	48	32
I	54	31
I	60	30
I	66	31
I	72	30
I	78	30
I	84	30
I	90	29
I	96	29
I	102	28
I	108	28
I	114	26
I	120	28
I	126	26
I	132	25
I	138	24
I	144	24
I	150	24
I	156	22
I	162	22
I	168	22
I	174	22
I	180	19
I	186	19
I	192	18
I	199	18
I	204	18
I	210	18
I	217	17
I	222	16
I	229	15
I	235	14
I	241	14
I	247	13
I	253	13
I	259	14
I	265	13
I	271	11
I	277	11
I	283	9



ROUND NUMBER 207 CONTINUED

I	289	9
I	295	9
I	301	8
I	307	7
I	313	7
I	319	7
I	324	8
I	0	0
I	0	0

ROUND NUMBER - 206

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -SIERRA, JSP

PROJECTILE VELOCITY (MPS) -373.53

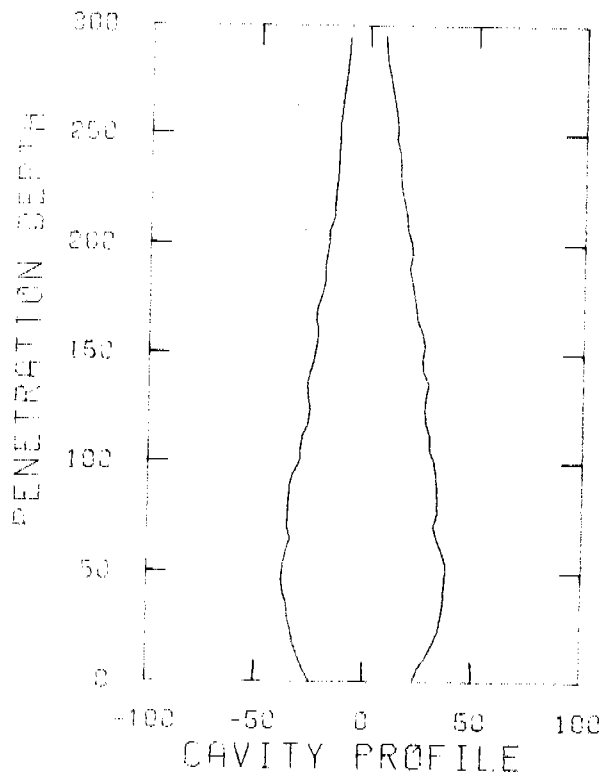
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	64	64
43	64	64
80	63	63
114	84	84
150	71	71

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	23
5	26
12	29
17	32
23	34
29	35
35	36
41	37
47	37
53	37
58	35
64	33
70	33
76	34
82	34
88	33
94	32
100	30
105	29
111	29
117	26
123	26
129	27
135	27
141	25
147	24
153	24
159	23
165	23
170	22
176	20
182	19
188	19
194	19
200	18
206	17
212	16
218	15
223	14
229	14
235	14
241	13
247	12
253	13
259	12
265	11
271	10
277	9



ROUND NUMBER 206 CONTINUED

I	283	9
I	289	9
I	294	7
I	300	7
I	306	6
I	312	6
I	317	6
I	0	0
I	0	0

ROUND NUMBER - 189

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -SIERRA, JSP

PROJECTILE VELOCITY (MPS) -389.27

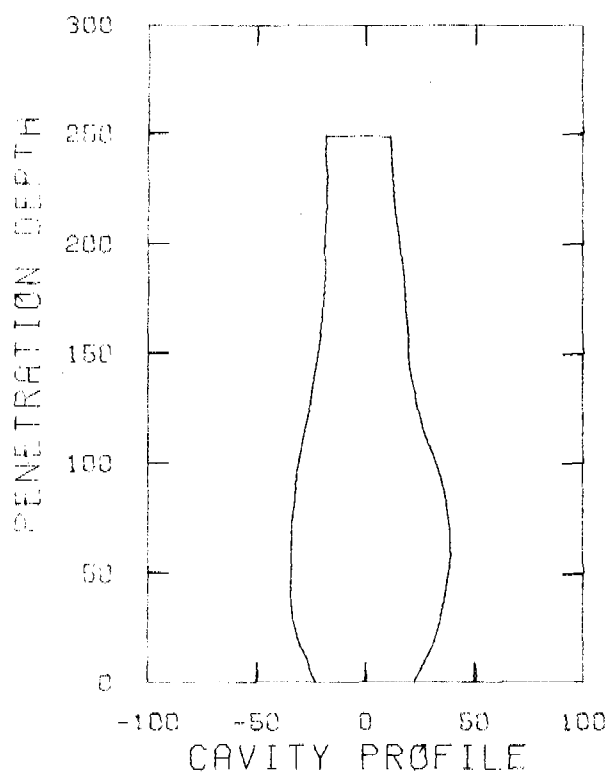
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	60	61
48	51	51
84	54	55
118	54	55
149	58	62

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	22
I	5	25
I	11	27
I	17	30
I	23	32
I	28	34
I	35	34
I	40	35
I	46	36
I	52	36
I	57	36
I	63	36
I	69	36
I	75	35
I	81	34
I	86	34
I	92	33
I	98	31
I	104	30
I	109	28
I	115	26
I	121	25
I	127	24
I	133	23
I	139	22
I	144	21
I	150	20
I	156	19
I	162	19
I	168	18
I	173	18
I	179	18
I	185	17
I	191	17
I	196	17
I	202	16
I	208	16
I	214	15
I	220	15
I	226	14
I	231	14
I	237	14
I	243	14
I	249	14
I	0	0



ROUND NUMBER - 205

PROJECTILE MASS (GM) - 9.100

PROJECTILE TYPE -SIERRA, JSP

PROJECTILE VELOCITY (MPS) -418.68

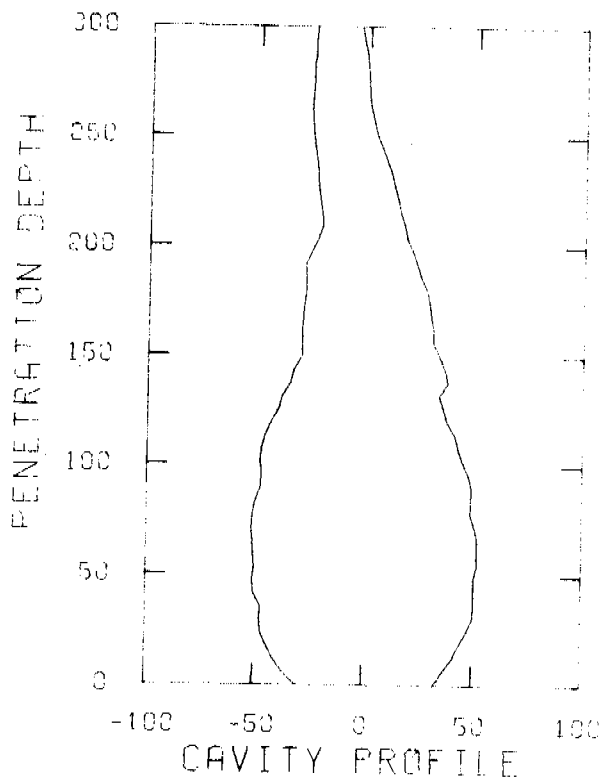
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-RECT AREA (MM**2)
17	67	67
49	74	74
85	74	74
118	80	85
149	69	87

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	31
I	6	36
I	11	40
I	18	44
I	23	47
I	30	48
I	36	49
I	41	50
I	48	50
I	53	51
I	59	51
I	65	51
I	71	51
I	77	49
I	83	49
I	89	48
I	95	47
I	101	46
I	107	44
I	113	43
I	119	40
I	126	37
I	131	35
I	137	35
I	143	34
I	150	31
I	155	30
I	161	29
I	167	29
I	173	28
I	179	27
I	185	26
I	191	25
I	197	22
I	203	20
I	209	18
I	215	18
I	221	17
I	227	17
I	233	16
I	239	16
I	245	15
I	251	14
I	257	14
I	263	13
I	268	12
I	275	12
I	281	12



ROUND NUMBER 205 CONTINUED

I	287	11
I	293	10
I	299	10
I	305	9
I	311	8
I	317	7
I	321	7
I	0	0
I	0	0

ROUND NUMBER - 192

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -SIERRA, JSP

PROJECTILE VELOCITY (MPS) -180.04

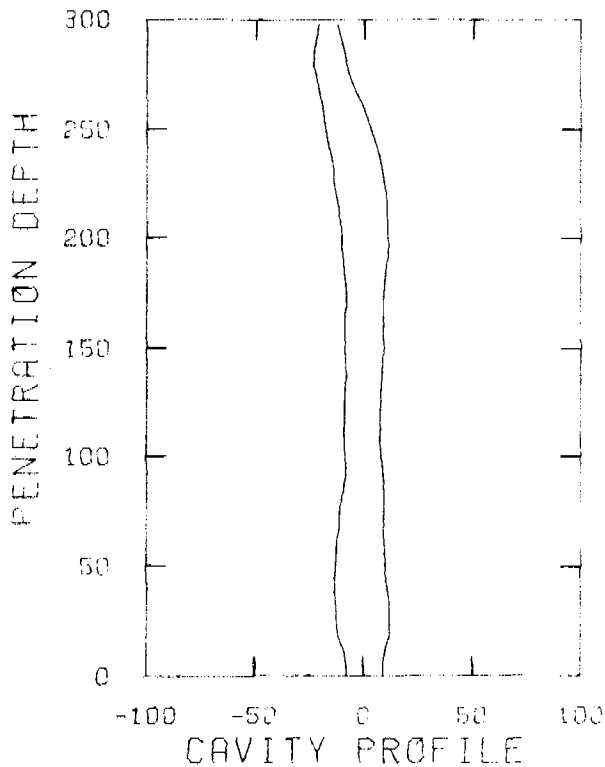
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
4	53	53
22	58	58
41	58	58
62	45	46
84	59	59

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	8
I 5	8
I 11	9
I 17	11
I 23	12
I 29	12
I 35	12
I 41	12
I 47	11
I 53	11
I 59	10
I 65	10
I 71	10
I 77	9
I 83	9
I 89	8
I 95	8
I 101	8
I 107	8
I 113	8
I 119	7
I 125	8
I 130	8
I 136	8
I 142	8
I 148	9
I 154	9
I 160	8
I 166	8
I 172	8
I 178	9
I 184	9
I 190	10
I 196	11
I 202	10
I 208	10
I 214	11
I 220	11
I 226	11
I 232	11
I 238	11
I 244	11
I 249	10
I 255	9
I 261	9
I 267	8
I 273	7
I 279	7



ROUND NUMBER 192 CONTINUED

I	285	7
I	291	5
I	297	4
I	303	2
I	309	3
I	315	3
I	319	3
I	0	0
I	0	0

ROUND NUMBER - 191

PROJECTILE MASS (GM) - 10.238

PROJECTILE TYPE - SIERRA, JSP

PROJECTILE VELOCITY (MPS) - 260.29

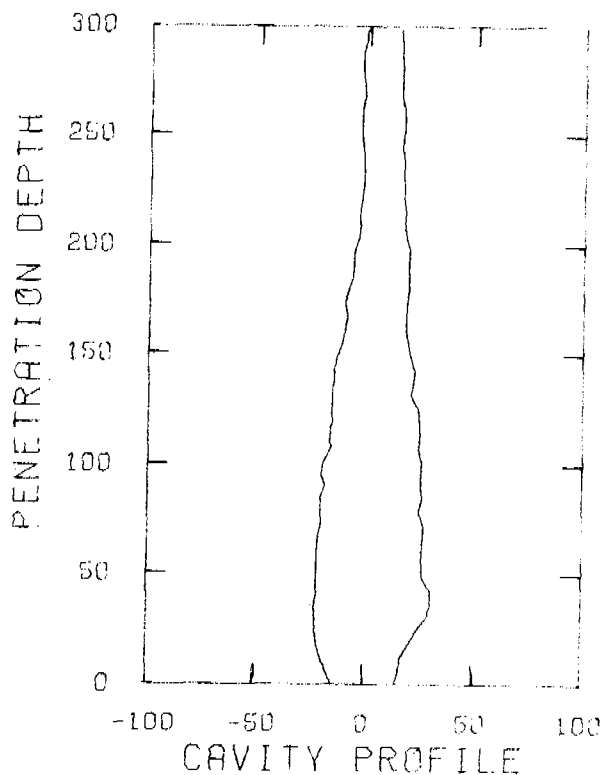
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
11	61	61
32	67	67
60	67	67
87	71	71
115	70	70

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	14
6	16
11	18
17	21
24	23
29	25
35	27
42	26
47	24
53	24
59	24
65	24
71	23
77	22
83	23
89	21
95	22
101	22
107	20
113	20
119	20
125	19
131	18
137	18
143	18
149	16
155	14
161	13
167	13
172	14
178	13
184	12
190	12
197	12
202	10
208	11
214	10
220	9
226	9
232	8
238	9
244	8
250	9
256	10
262	9
268	8
274	8
280	9



ROUND NUMBER 191 CONTINUED

I	286	8
I	292	8
I	298	7
I	304	7
I	310	6
I	316	6
I	321	6
I	0	0
I	0	0

ROUND NUMBER - 190

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -SIERRA, JSP

PROJECTILE VELOCITY (MPS) -295.35

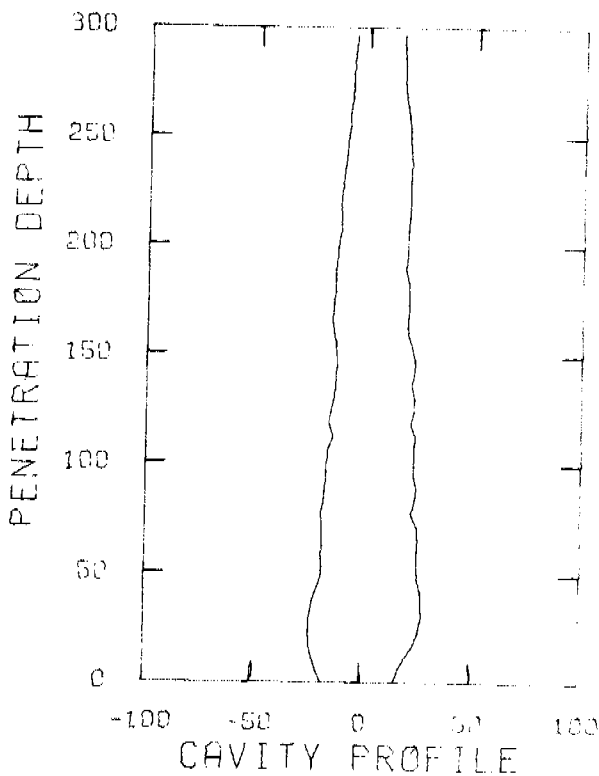
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

I CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
14	56	56
38	62	62
71	58	58
102	60	60
136	61	64

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	16
I 5	18
I 11	21
I 17	24
I 23	25
I 29	25
I 35	25
I 41	24
I 47	22
I 53	21
I 59	21
I 64	21
I 71	21
I 76	20
I 82	20
I 88	20
I 94	19
I 100	19
I 106	19
I 112	18
I 118	18
I 124	18
I 130	18
I 136	17
I 142	17
I 147	17
I 153	17
I 159	16
I 165	17
I 171	17
I 177	16
I 183	16
I 189	15
I 195	15
I 201	15
I 207	15
I 213	15
I 219	15
I 225	15
I 230	15
I 236	15
I 242	14
I 248	14
I 254	13
I 260	13
I 266	12
I 272	11
I 278	11



ROUND NUMBER 190 CONTINUED

I	284	11
I	289	10
I	296	10
I	301	9
I	307	9
I	313	8
I	317	9
I	0	0
I	0	0

ROUND NUMBER - 188

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -SIERRA, USP

PROJECTILE VELOCITY (MPS) -343.63

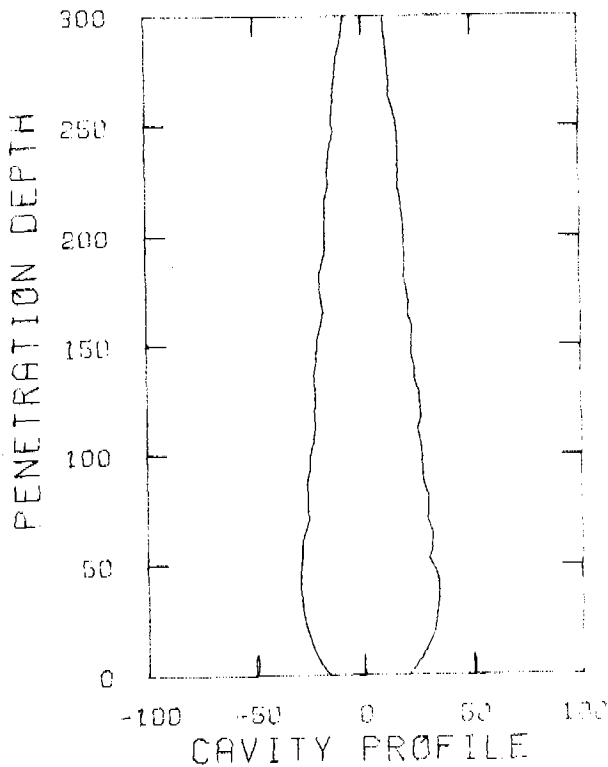
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
15	83	83
43	92	93
79	90	91
114	93	93
152	100	100

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	18
I	5	22
I	11	26
I	17	28
I	23	30
I	29	31
I	35	31
I	41	32
I	46	31
I	52	29
I	58	30
I	64	29
I	70	27
I	76	27
I	82	27
I	88	26
I	93	25
I	99	25
I	105	24
I	111	23
I	117	24
I	123	23
I	129	23
I	134	23
I	140	22
I	146	21
I	152	21
I	158	20
I	164	19
I	170	20
I	176	19
I	181	19
I	188	18
I	193	17
I	199	17
I	205	17
I	211	17
I	217	17
I	222	15
I	228	16
I	235	15
I	240	15
I	246	14
I	252	14
I	258	13
I	264	12
I	269	12
I	275	11



ROUND NUMBER 188 CONTINUED

I	281	11
I	287	10
I	293	9
I	299	8
I	305	8
I	311	8
I	315	8
I	0	0
I	0	0

ROUND NUMBER - 200

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -SIERRA, JSP

PROJECTILE VELOCITY (MPS) -351.96

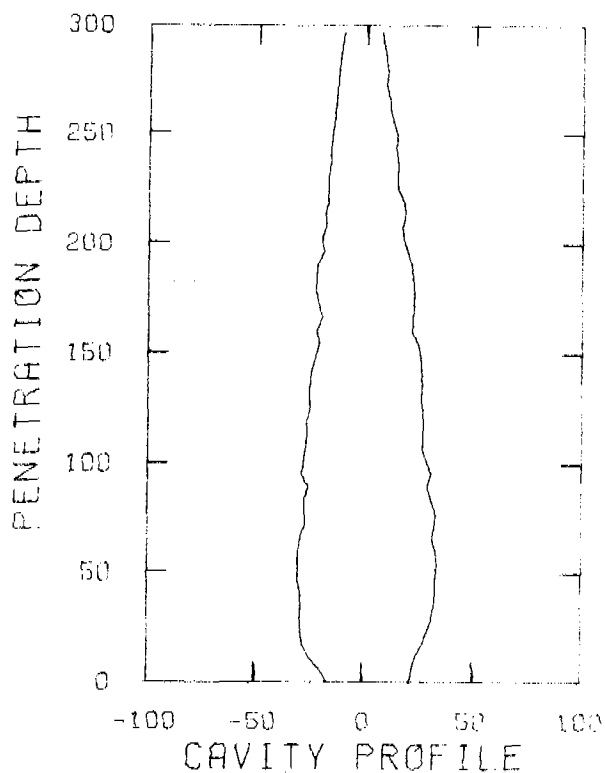
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	92	92
43	94	94
83	105	105
116	95	96
153	102	102

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	18
I 5	21
I 11	24
I 17	27
I 23	29
I 29	30
I 35	31
I 41	31
I 47	32
I 53	32
I 59	31
I 65	30
I 71	30
I 77	30
I 83	29
I 88	27
I 94	29
I 100	28
I 106	26
I 112	26
I 118	26
I 124	25
I 130	25
I 136	25
I 142	25
I 148	24
I 154	22
I 160	21
I 166	20
I 172	21
I 178	22
I 183	22
I 189	21
I 195	19
I 201	18
I 207	17
I 213	18
I 219	17
I 225	15
I 231	15
I 237	15
I 243	14
I 249	14
I 255	13
I 261	12
I 266	11
I 272	10
I 279	10



ROUND NUMBER 200 CONTINUED

I	284	10
I	290	9
I	296	8
I	302	7
I	308	7
I	314	7

ROUND NUMBER - 189

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -SIERRA, JSP

PROJECTILE VELOCITY (MPS) -384.85

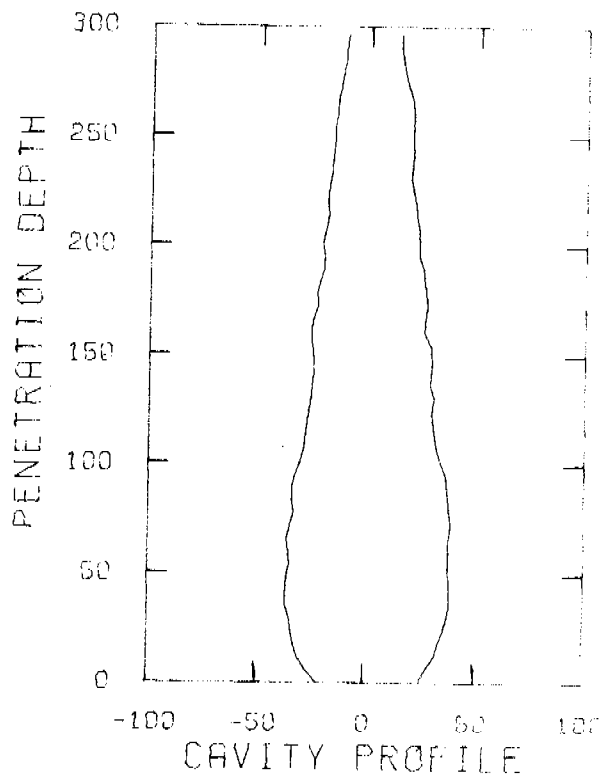
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
16	52	52
48	56	56
88	56	57
125	61	62
164	63	64

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	23
5	27
11	31
17	35
23	35
29	36
35	38
41	38
47	37
53	36
59	36
65	37
71	37
77	35
83	35
88	35
94	34
100	32
106	30
112	29
118	28
124	27
130	28
136	26
142	26
148	26
154	27
159	25
165	25
171	25
177	24
183	23
189	22
195	21
201	21
207	21
213	19
219	19
224	19
231	18
236	18
242	18
248	17
254	17
260	17
266	16
272	15
278	13



ROUND NUMBER 189 CONTINUED

I	284	12
I	290	12
I	296	11
I	301	11
I	307	11
I	313	10
I	319	9
I	325	8
I	0	0

ROUND NUMBER - 201

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -SIERRA, JSP

PROJECTILE VELOCITY (MPS) -395.84

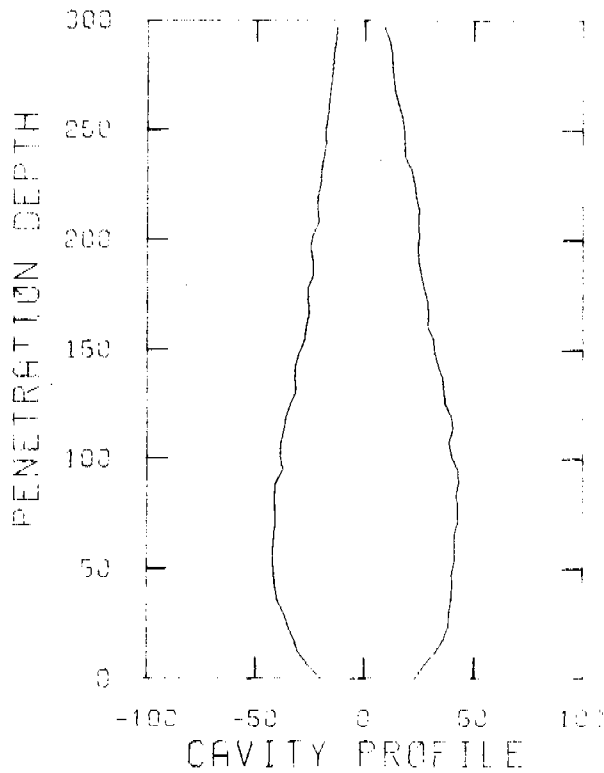
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
16	67	67
48	77	77
86	74	74
121	85	85
156	70	72

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	21
5	26
11	31
17	34
23	36
29	38
35	40
41	40
47	41
53	41
59	41
65	41
71	42
77	42
83	41
89	42
94	40
100	39
106	38
112	38
118	38
124	35
130	33
136	33
142	32
148	30
154	29
160	27
166	27
172	27
178	26
184	24
189	24
195	24
201	24
207	22
213	23
219	22
225	21
231	20
237	18
243	17
249	17
255	17
261	15
267	14
272	14
278	13



ROUND NUMBER 201 CONTINUED

I	284	13
I	290	12
I	296	10
I	302	9
I	308	9
I	314	8
I	318	7
I	0	0
I	0	0

ROUND NUMBER = 258

PROJECTILE MASS (GM) - 11.016

PROJECTILE TYPE - SIERRA, JHP

PROJECTILE VELOCITY (MPS) - 355.24

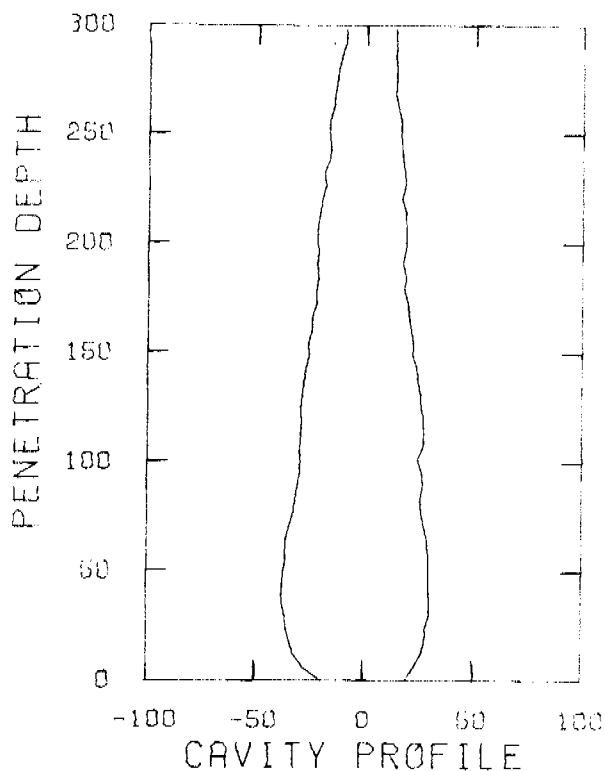
PROJECTILE DIAMETER (CM) - 1.041

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
17	83	83
47	100	100
84	98	98
120	108	110
159	101	103

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	19
5	25
11	29
17	31
23	32
29	33
35	34
41	34
47	33
53	33
59	32
65	32
71	30
77	29
83	28
89	28
95	27
101	26
107	28
112	29
119	28
125	27
130	27
136	25
142	25
148	23
154	23
160	22
166	21
172	20
178	20
184	19
190	19
196	20
202	20
208	20
214	19
220	18
226	18
232	18
238	16
244	16
249	16
256	16
261	14
267	13
273	13
279	13



ROUND NUMBER 25A CONTINUED

I	285	12
I	291	11
I	297	11
I	303	9
I	309	9
I	315	10
I	320	9
I	0	0
I	0	0

ROUND NUMBER - 257

PROJECTILE MASS (GM) - 13.608

PROJECTILE TYPE - SIERRA, JHP

PROJECTILE VELOCITY (MPS) - 353.19

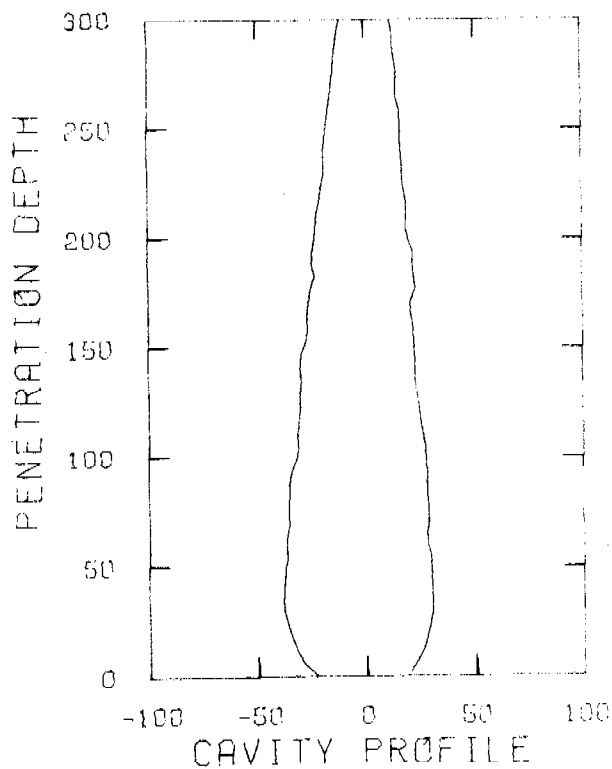
PROJECTILE DIAMETER (CM) - 1.041

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
16	81	81
46	95	95
84	116	117
120	106	107
159	119	126

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	20
5	25
11	29
17	31
23	32
29	34
35	34
41	34
47	33
52	33
58	32
64	31
70	32
76	32
82	31
88	31
93	30
99	29
105	28
111	28
117	27
123	27
129	26
135	25
140	26
146	25
152	24
158	24
164	23
170	23
176	24
182	22
187	23
193	22
199	21
205	20
211	20
217	19
223	18
228	17
234	17
240	17
246	17
252	16
258	16
264	14
270	14
275	14



ROUND NUMBER 257 CONTINUED

I	281	13
I	287	12
I	293	12
I	299	11
I	305	10
I	311	9
I	316	10
I	323	9
I	0	0

ROUND NUMBER - 243

PROJECTILE MASS (GM)-11.664

PROJECTILE TYPE -SIERRA, JHP

PROJECTILE VELOCITY (MPS) - 570.80

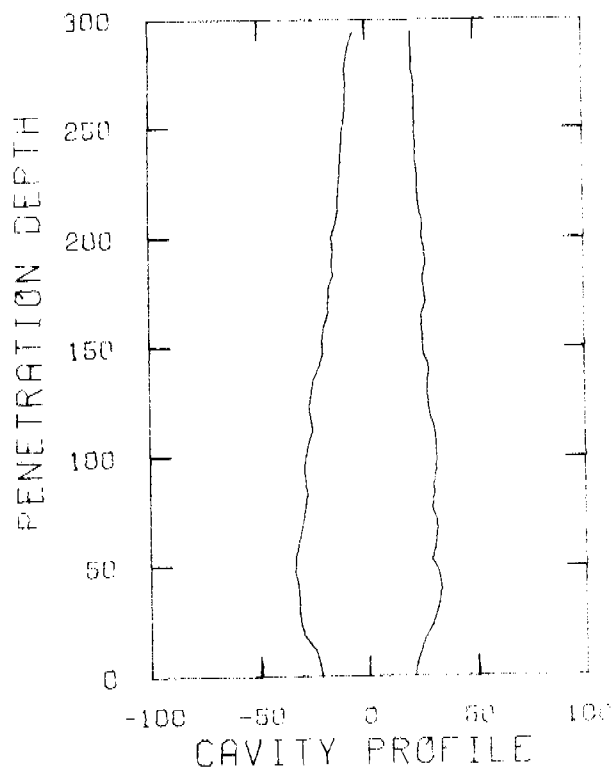
PROJECTILE DIAMETER (CM) - 1.092

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
15	86	86
46	86	86
85	88	88
123	94	94
162	95	96

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	21
I	5	22
I	11	24
I	17	27
I	23	30
I	29	31
I	35	32
I	41	33
I	47	33
I	53	31
I	58	31
I	64	31
I	70	30
I	76	29
I	82	29
I	88	29
I	94	30
I	100	30
I	106	29
I	112	28
I	117	27
I	123	27
I	129	26
I	135	26
I	141	25
I	147	22
I	153	23
I	159	22
I	165	21
I	171	22
I	177	21
I	182	20
I	188	21
I	194	21
I	200	20
I	206	20
I	212	19
I	218	18
I	224	17
I	229	17
I	235	16
I	241	16
I	247	16
I	253	16
I	259	15
I	265	15
I	271	15
I	277	15



ROUND NUMBER 243 CONTINUED

I	283	14
I	289	13
I	294	12
I	300	11
I	306	11
I	312	10
I	31A	10
I	322	10
I	0	0

ROUND NUMBER - 251

PROJECTILE MASS (GM)-15.552

PROJECTILE TYPE -SIERRA, JHP

PROJECTILE VELOCITY (MPS) -369.01

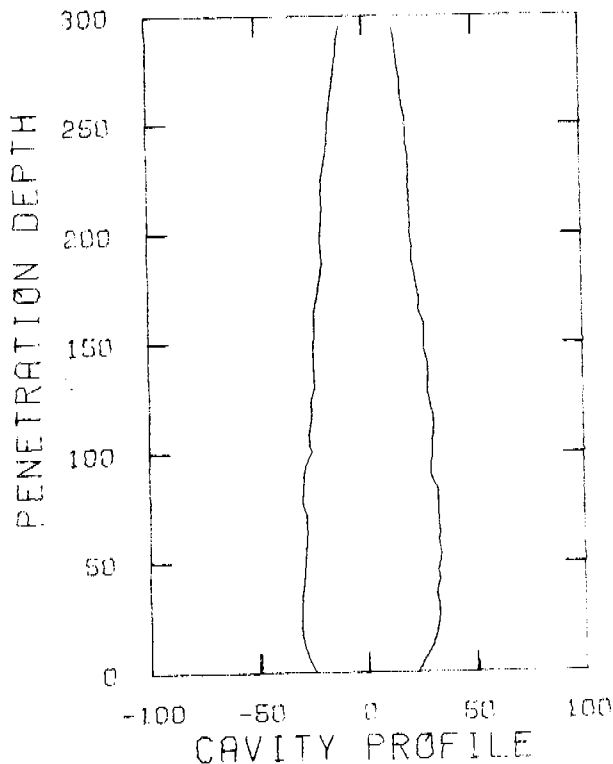
PROJECTILE DIAMETER (CM) - 1.092

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
14	80	82
46	98	99
86	92	93
126	87	89
169	89	91

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	23
6	26
11	29
17	31
23	31
29	31
35	31
41	31
47	30
53	31
59	30
65	30
70	30
76	31
82	31
88	29
94	28
100	27
106	28
112	28
118	27
123	27
129	25
135	26
141	26
147	25
153	25
159	24
165	23
171	23
177	22
183	21
189	20
194	20
200	20
206	20
212	19
218	20
224	19
230	19
236	18
241	18
247	17
253	17
259	16
265	15
271	15
277	14



ROUND NUMBER 251 CONTINUED

I	283	13
I	289	12
I	294	11
I	300	11
I	306	10
I	312	10
I	317	10
I	0	0
I	0	0

ROUND NUMBER - 73

PROJECTILE MASS (GM) - 6.480

PROJECTILE TYPE - S+W. FJ. 9MM

PROJECTILE VELOCITY (MPS) - 502.14

PROJECTILE DIAMETER (CM) - .899

PROJECTILE DEFORMATION

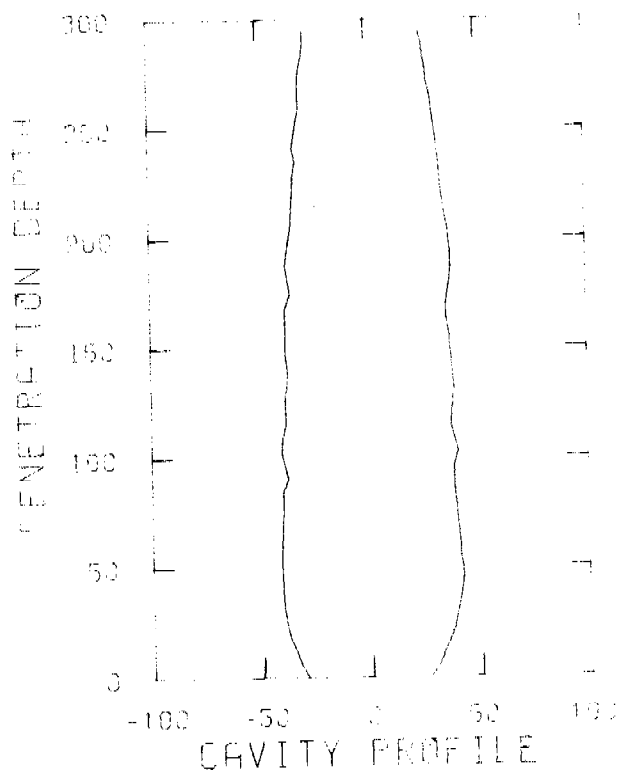
PENETRATION PRESENTED CROSS-SECT
DISTANCE (MM) AREA (MM**2) AREA (MM**2)

27 60 61
128 54 54
168 42 57

CAVITY MEASUREMENTS

PENETRATION CAVITY
DISTANCE (MM) RADIUS (MM)

0 28
5 31
12 34
18 37
24 38
30 39
36 40
42 41
48 41
54 41
60 40
66 40
72 40
78 39
84 39
90 38
96 38
102 40
108 39
114 37
120 38
126 38
132 38
138 37
144 37
150 37
156 37
162 37
168 36
174 36
180 37
186 38
192 37
198 36
204 35
210 35
216 34
222 33
228 33
234 32
240 33
246 32
252 31
258 30
264 30
271 29
276 29
282 27



ROUND NUMBR 73 CONTINUED

I	288	27
I	294	26
I	300	25
I	307	23
I	312	23
I	319	22
I	324	21
I	330	16
I	332	8

ROUND NUMBER - 74

PROJECTILE MASS (GM) - 7.452

PROJECTILE TYPE - S+W, FJ, 9MM

PROJECTILE VELOCITY (MPS) - 404.24

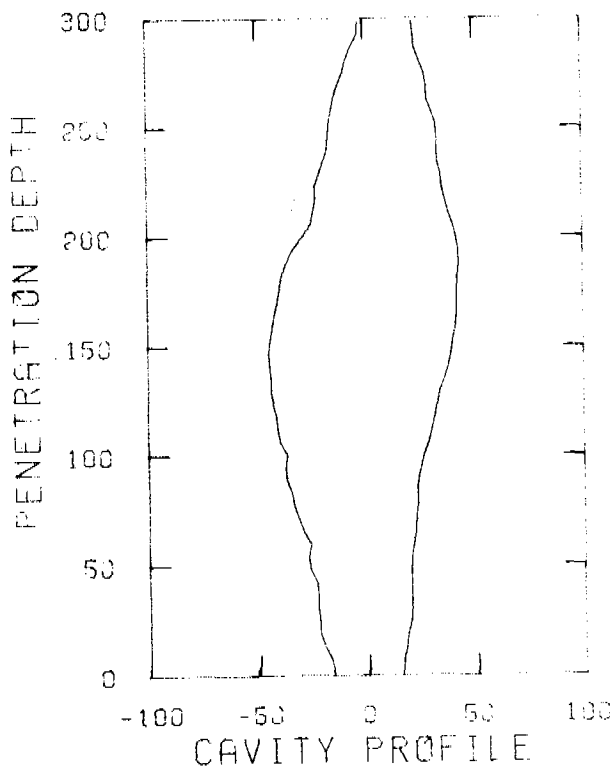
PROJECTILE DIAMETER (CM) - .099

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
23	49	50
57	50	53
102	48	59
141	25	51
183	34	44

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	15
7	16
12	18
18	20
24	21
30	21
36	21
42	21
48	23
53	23
59	23
65	25
71	27
77	28
82	29
88	30
94	31
100	31
106	34
112	35
118	36
123	37
129	38
135	40
141	41
147	42
152	42
158	42
164	41
170	41
176	40
182	40
187	39
193	38
199	35
205	32
210	30
216	29
222	28
228	27
234	26
239	25
245	24
251	24
257	22
263	21
269	20
275	18



ROUND NUMBER 74 CONTINUED

1	280	16
1	286	14
1	292	12
1	298	12
1	304	11
1	310	10
1	315	10
1	321	8
1	327	4

ROUND NUMBER - 134

PROJECTILE MASS (GM) - 6.480

PROJECTILE TYPE -S+W, JHP, 9MM

PROJECTILE VELOCITY (MPS) -183.17

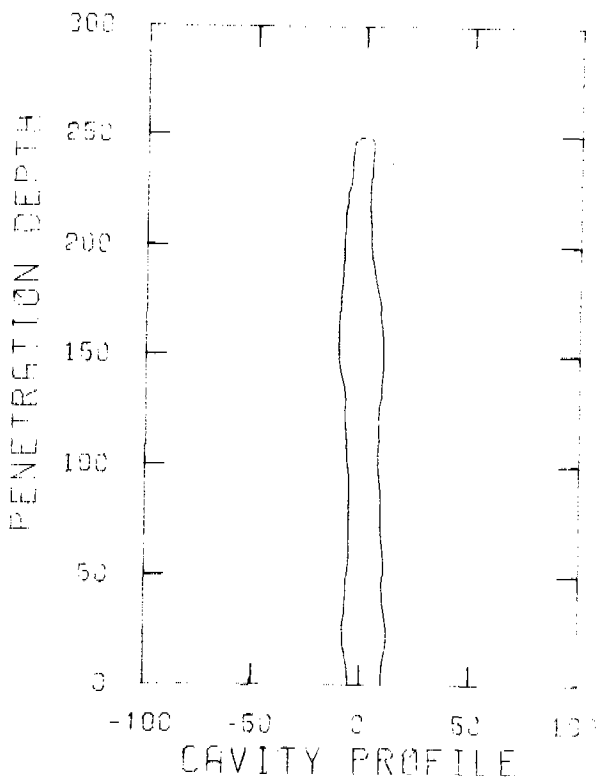
PROJECTILE DIAMETER (CM) - .897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
4	56	56
20	51	51
41	58	58
61	55	55
83	61	61

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	7
I	4	7
I	9	8
I	14	9
I	18	10
I	23	10
I	27	10
I	32	9
I	37	8
I	41	8
I	46	8
I	51	8
I	55	8
I	60	7
I	65	7
I	69	7
I	74	7
I	79	7
I	83	7
I	88	7
I	93	6
I	97	6
I	102	7
I	107	7
I	111	7
I	116	7
I	121	7
I	126	7
I	130	8
I	135	8
I	139	9
I	144	10
I	149	10
I	153	10
I	158	10
I	163	10
I	167	9
I	172	9
I	177	8
I	181	8
I	186	7
I	191	6
I	195	6
I	200	6
I	205	5
I	209	5
I	214	5
I	219	4



ROUND NUMBER 134 CONTINUED

I	223	4
I	228	4
I	233	4
I	238	4
I	242	4
I	247	4
I	249	2
I	0	0
I	0	0

ROUND NUMBER - 133

PROJECTILE MASS (GM) - 6.480

PROJECTILE TYPE -S+W, JHP, 9MM

PROJECTILE VELOCITY (MPS) -255.28

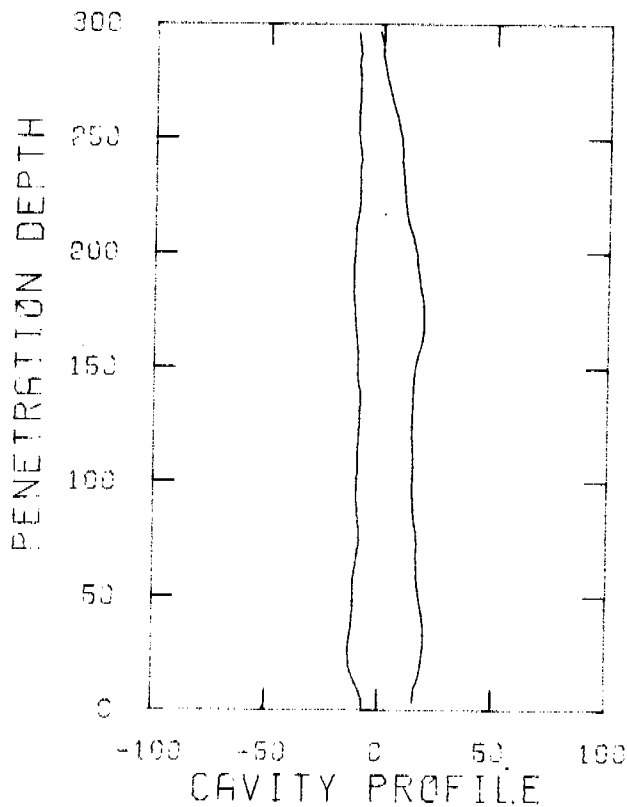
PROJECTILE DIAMETER (CM) - .897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
7	58	58
29	66	66
57	59	60
84	71	71
112	66	67

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	11
I	4	11
I	9	12
I	13	14
I	18	15
I	23	16
I	27	16
I	32	16
I	36	15
I	41	15
I	46	14
I	50	14
I	55	14
I	60	13
I	64	13
I	69	12
I	74	12
I	78	12
I	83	12
I	88	12
I	92	12
I	97	12
I	101	12
I	106	12
I	111	12
I	115	11
I	120	11
I	124	11
I	129	11
I	134	11
I	138	11
I	143	12
I	147	12
I	152	12
I	157	13
I	161	14
I	166	15
I	171	15
I	175	15
I	180	15
I	184	14
I	189	14
I	194	14
I	198	13
I	203	13
I	208	12
I	212	11
I	217	10



ROUND NUMBER 133 CONTINUED

I	221	9
I	226	9
I	231	9
I	235	9
I	240	8
I	245	9
I	249	9
I	254	9
I	258	8
I	263	7
I	268	6
I	272	6
I	277	5
I	282	5
I	286	4
I	291	5
I	295	4
I	300	4
I	305	2
I	0	0
I	0	0

ROUND NUMBER - 132

PROJECTILE MASS (GM) - 6.480

PROJECTILE TYPE -S+W, JHP, 9MM

PROJECTILE VELOCITY (MPS) -335.31

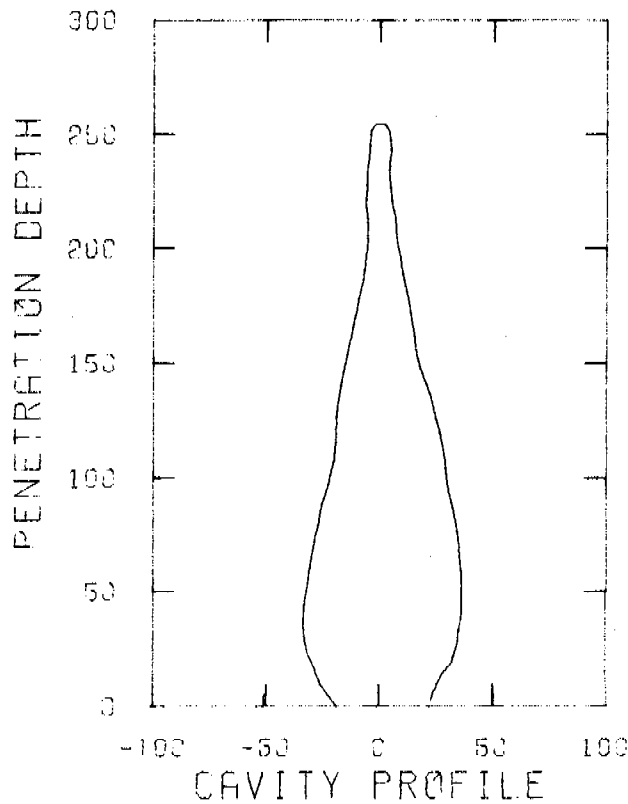
PROJECTILE DIAMETER (CM) - .897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
12	72	72
37	107	107
67	123	123
92	95	99
117	94	104

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	20
4	23
9	25
13	27
18	30
23	32
28	33
32	34
37	35
42	35
46	34
51	34
55	33
60	33
65	32
70	32
74	31
79	30
84	29
88	28
93	27
98	25
102	25
107	24
111	23
116	23
121	22
126	21
130	21
135	20
139	18
144	17
149	16
153	15
158	14
163	13
167	12
172	11
177	10
181	9
186	8
191	8
195	7
200	6
205	6
209	6
214	6
219	5



ROUND NUMBER 132 CONTINUED

I	223	5
I	228	4
I	233	4
I	237	4
I	242	4
I	247	4
I	251	3
I	254	1
I	0	0

ROUND NUMBER - 131

PROJECTILE MASS (GM)- 6.480

PROJECTILE TYPE -S+W, JHP, 9MM

PROJECTILE VELOCITY (MPS) -419.83

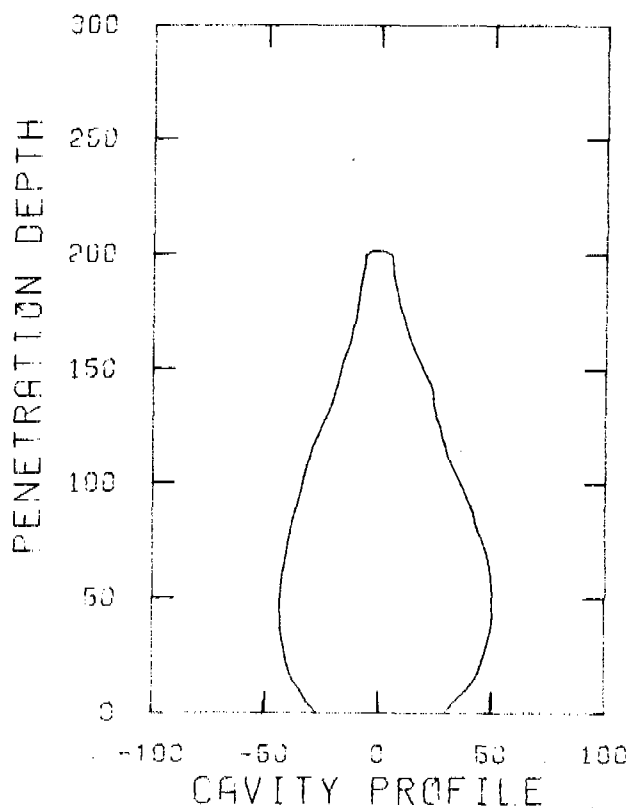
PROJECTILE DIAMETER (CM) - .897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
14	94	94
43	211	212
75	203	203
101	196	198
124	195	196

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	28
I	4	32
I	9	36
I	13	39
I	18	42
I	23	43
I	27	44
I	32	45
I	36	46
I	41	47
I	46	47
I	50	47
I	55	46
I	60	46
I	64	45
I	69	44
I	74	42
I	78	41
I	83	40
I	88	39
I	92	37
I	97	35
I	102	34
I	106	32
I	111	30
I	116	29
I	120	27
I	125	25
I	129	23
I	134	22
I	139	21
I	143	20
I	148	18
I	153	16
I	157	14
I	162	12
I	167	11
I	171	10
I	176	9
I	181	8
I	185	7
I	190	6
I	194	6
I	199	5
I	201	2



ROUND NUMBER - 75

PROJECTILE MASS (GM) - 6.480

PROJECTILE TYPE - 34N, JWP, 9MM

PROJECTILE VELOCITY (MPS) - 461.12

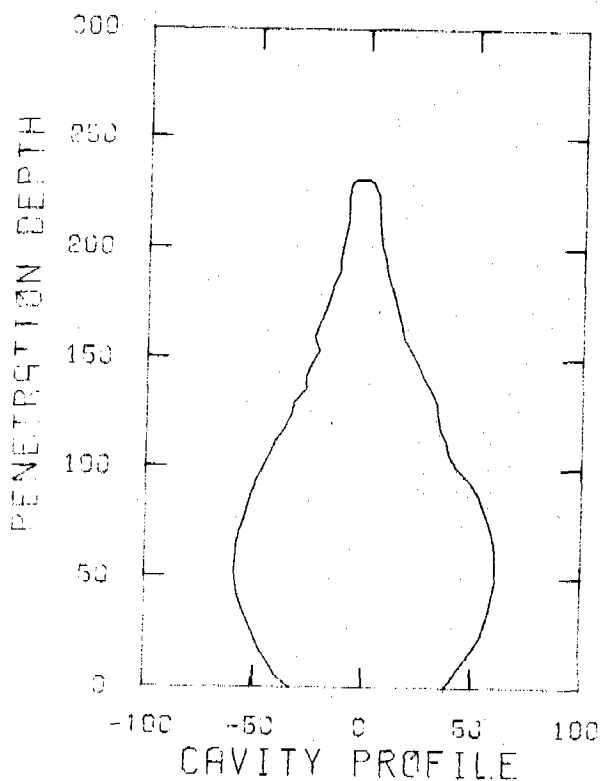
PROJECTILE DIAMETER (CM) - .699

PROJECTILE DEFORMATION

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM ² × 2)	CROSS-SECT AREA (MM ² × 2)	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
------------------------------	---	--	------------------------------	-----------------------

22	122	123	0	35
53	124	124	5	40
87	136	136	11	44
115	136	136	17	49
139	129	129	23	52
			29	54
			35	57
			41	58
			46	59
			53	60
			58	59
			64	59
			70	58
			76	56
			82	54
			88	52
			94	48
			100	44
			106	41
			112	39
			117	35
			123	33
			129	32
			135	28
			141	26
			147	24
			153	20
			159	20
			164	18
			170	16
			177	14
			182	12
			188	10
			194	10
			200	8
			206	7
			212	7
			218	6
			223	6
			229	4
			231	2
			0	0



ROUND NUMBER - 130

PROJECTILE MASS (GM) - 7.452

PROJECTILE TYPE -S+W, JHP, 9MM

PROJECTILE VELOCITY (MPS) -155.83

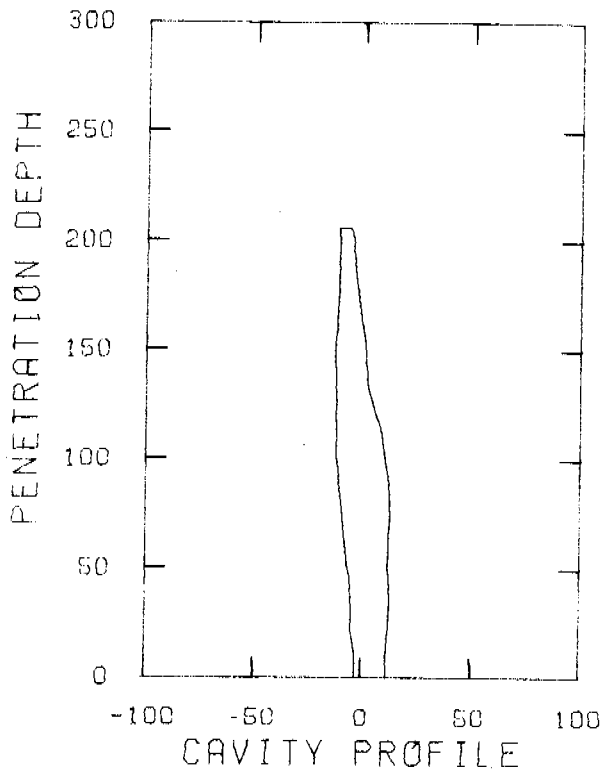
PROJECTILE DIAMETER (CM) - .897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
1	56	57
16	52	53
34	55	58
51	50	53
71	47	58

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	6
I	4	7
I	9	7
I	13	7
I	18	8
I	23	8
I	28	8
I	32	8
I	37	9
I	42	8
I	46	8
I	51	9
I	56	9
I	61	9
I	65	10
I	70	10
I	75	11
I	79	11
I	84	11
I	89	11
I	93	11
I	98	11
I	103	11
I	107	10
I	112	10
I	117	9
I	122	8
I	126	8
I	131	7
I	135	7
I	140	7
I	145	7
I	150	6
I	154	6
I	159	6
I	164	5
I	168	5
I	173	4
I	178	4
I	182	4
I	187	3
I	192	3
I	196	3
I	201	3
I	206	2
I	208	2
I	0	0
I	0	0



ROUND NUMBER - 129

PROJECTILE MASS (GM) - 7.452

PROJECTILE TYPE -S+W, JHP, 9MM

PROJECTILE VELOCITY (MPS) -263.21

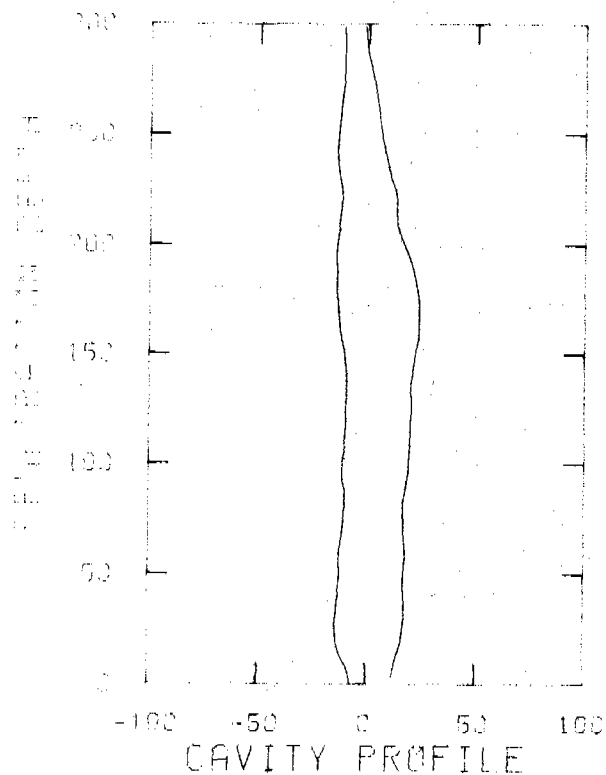
PROJECTILE DIAMETER (CM) - .897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
8	63	63
31	63	63
61	61	62
89	75	75
121	66	66

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	9
I 4	10
I 9	11
I 13	13
I 18	14
I 23	15
I 27	15
I 32	15
I 36	15
I 41	15
I 46	14
I 50	14
I 55	15
I 59	15
I 64	14
I 69	14
I 73	13
I 78	13
I 82	13
I 87	13
I 91	14
I 96	15
I 101	15
I 105	14
I 110	15
I 114	14
I 119	14
I 124	15
I 128	14
I 133	14
I 138	14
I 142	15
I 147	16
I 151	16
I 156	17
I 161	18
I 165	18
I 170	18
I 174	18
I 179	18
I 183	18
I 188	17
I 193	16
I 197	16
I 202	14
I 207	13
I 211	12
I 216	12



ROUND NUMBER 129 CONTINUED

I	220	12
I	225	12
I	230	11
I	234	11
I	239	11
I	243	10
I	248	9
I	253	9
I	257	8
I	262	8
I	266	7
I	271	7
I	276	6
I	280	5
I	285	5
I	289	4
I	294	4
I	299	4
I	303	4
I	308	4
I	0	0

ROUND NUMBER - 128

PROJECTILE MASS (GM) - 7.452

PROJECTILE TYPE -S+W, JHP, 9MM

PROJECTILE VELOCITY (MPS) -325.64

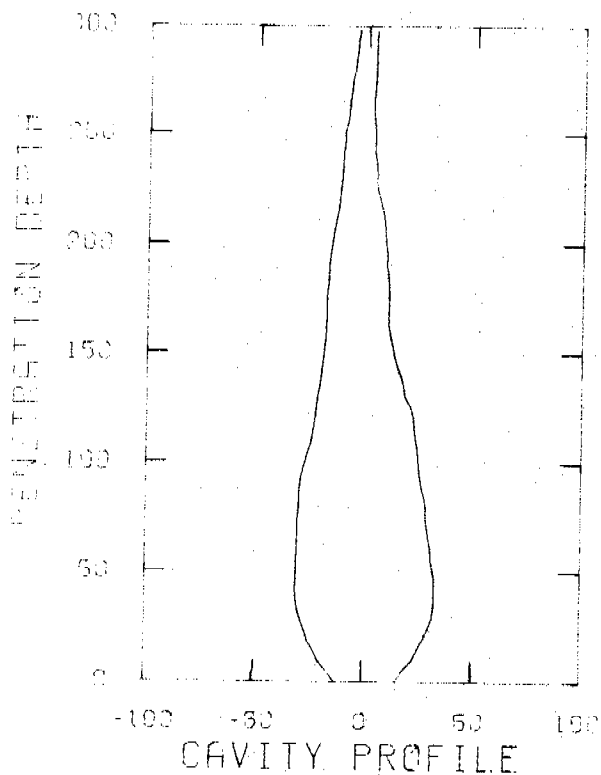
PROJECTILE DIAMETER (CM) - .897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
11	59	59
37	95	96
68	112	113
96	90	94
124	101	112

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	13
I	4	17
I	9	21
I	14	23
I	18	26
I	23	28
I	28	30
I	32	31
I	37	32
I	42	32
I	46	31
I	51	31
I	55	31
I	60	30
I	65	30
I	69	29
I	74	29
I	79	29
I	83	28
I	88	28
I	93	27
I	97	26
I	102	25
I	107	24
I	111	23
I	116	22
I	121	22
I	125	21
I	130	19
I	135	19
I	139	18
I	144	17
I	149	16
I	153	15
I	158	14
I	163	14
I	167	13
I	172	14
I	177	14
I	181	13
I	186	13
I	191	13
I	195	12
I	200	12
I	204	11
I	209	11
I	214	10
I	218	9



ROUND NUMBER 128 CONTINUED

I	223	8
I	229	7
I	233	7
I	237	7
I	242	6
I	246	6
I	251	6
I	256	5
I	260	5
I	265	5
I	270	5
I	274	5
I	279	4
I	284	4
I	288	4
I	293	4
I	298	3
I	302	3
I	304	1
I	0	0
I	0	0

ROUND NUMBER - 127

PROJECTILE MASS (GM) - 7.452

PROJECTILE TYPE -S+W, JHP, 9MM

PROJECTILE VELOCITY (MPS) -381.95

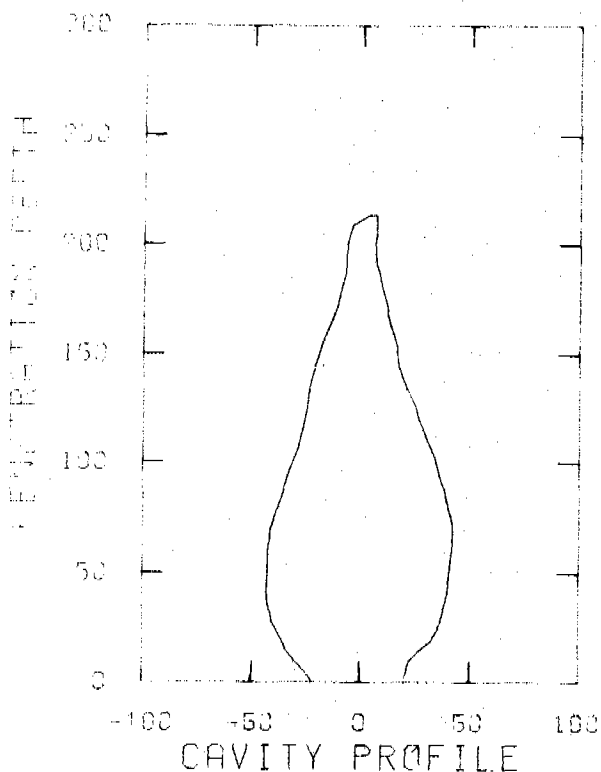
PROJECTILE DIAMETER (CM) - .897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	96	96
40	173	173
73	182	182
99	168	170
124	163	164

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	21
4	22
9	26
13	30
18	34
23	36
27	38
32	40
37	41
41	41
46	41
50	41
55	42
60	42
64	42
69	41
74	40
78	39
83	37
88	36
92	35
97	33
102	32
106	30
111	28
116	27
120	25
125	24
130	23
134	22
139	20
144	19
148	18
153	17
158	15
162	13
167	12
171	11
176	9
181	8
185	7
190	6
195	6
199	6
204	5
209	5
213	5
0	0



ROUND NUMBER - 76

PROJECTILE MASS (GM) - 7.452

PROJECTILE TYPE -S+W, JHP, 9MM

PROJECTILE VELOCITY (MPS) -427.49

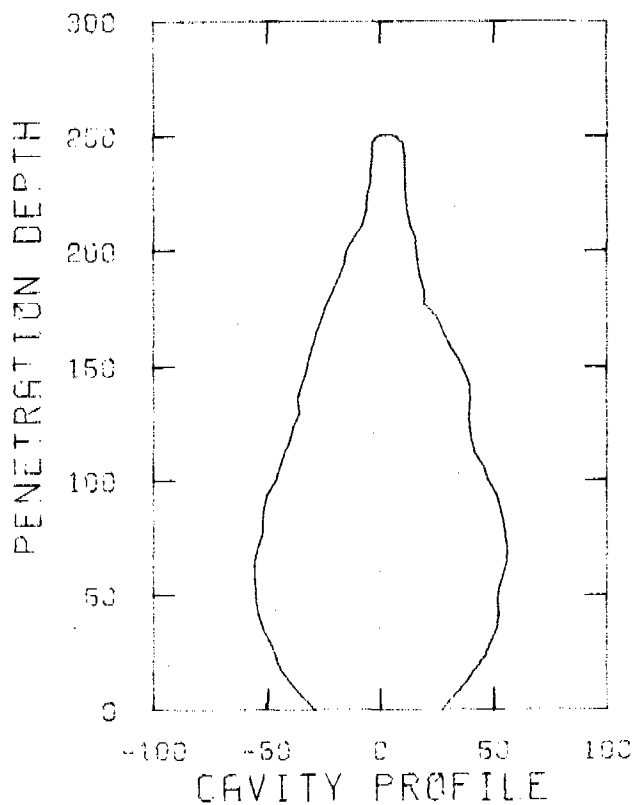
PROJECTILE DIAMETER (CM) - .899

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
21	104	104
51	204	205
86	191	199
115	199	202
142	204	205

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	27
5	33
11	38
17	42
23	46
29	48
35	51
41	53
47	53
52	53
58	54
64	55
70	55
76	53
82	53
88	52
94	50
100	46
106	44
112	41
117	39
123	38
129	37
135	37
141	37
147	35
153	32
158	30
164	27
170	25
176	21
182	20
188	17
194	16
199	15
205	13
211	10
217	8
223	8
229	7
235	7
241	6
247	6
249	4
250	2



ROUND NUMBER - 138

PROJECTILE MASS (GM) - 5.832

PROJECTILE TYPE -S+H, JSP, 9MM

PROJECTILE VELOCITY (MPS) -133.39

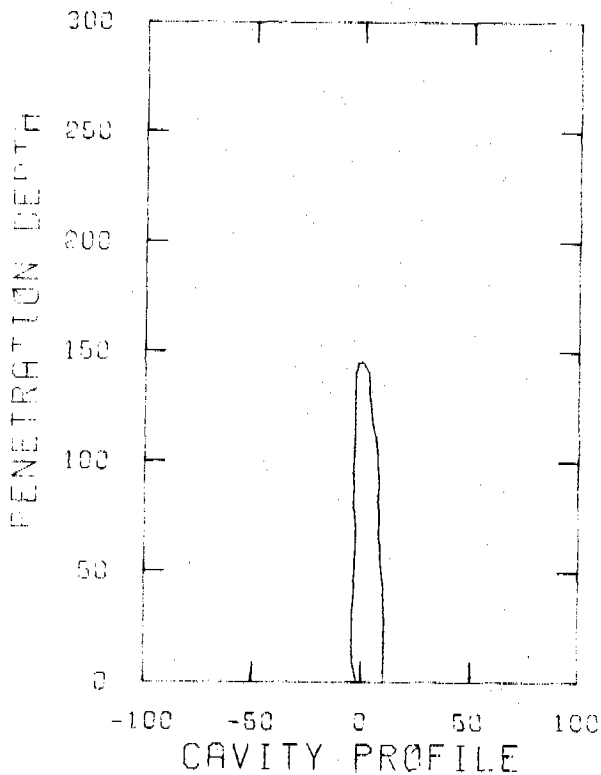
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
37	44	52
46	45	57
59	48	60
83	39	54

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	6
4	6
9	7
14	7
18	7
23	7
28	7
32	7
37	6
42	6
46	6
51	5
56	5
61	5
65	5
70	5
74	5
79	5
84	5
89	5
93	5
98	5
103	5
107	5
112	4
117	4
121	3
126	3
131	3
135	3
140	2
145	1
0	0



ROUND NUMBER - 139

PROJECTILE MASS (GM) - 5.832

PROJECTILE TYPE -S+M, JSP, 9MM

PROJECTILE VELOCITY (MPS) -257.00

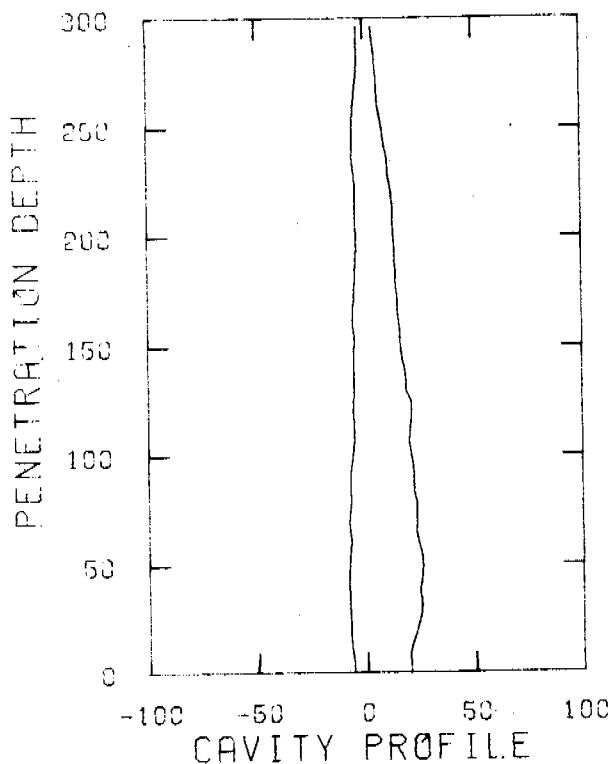
PROJECTILE DIAMETER (CM) - .897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
8	57	57
31	63	63
59	62	62
85	66	66
114	65	65

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	13
I 4	13
I 9	13
I 13	14
I 18	15
I 23	15
I 27	16
I 32	16
I 37	16
I 41	16
I 46	17
I 51	17
I 55	16
I 60	15
I 65	15
I 69	15
I 74	15
I 78	15
I 83	14
I 88	14
I 92	14
I 97	13
I 101	13
I 106	12
I 111	12
I 115	13
I 120	13
I 125	13
I 129	11
I 134	11
I 138	11
I 143	11
I 148	10
I 152	10
I 157	10
I 162	10
I 166	10
I 171	9
I 175	9
I 180	9
I 185	9
I 189	8
I 194	8
I 199	8
I 203	8
I 208	8
I 213	8
I 217	8



ROUND NUMBER 139 CONTINUED

I	222	8
I	226	7
I	231	7
I	236	8
I	240	7
I	245	7
I	249	6
I	254	6
I	259	5
I	264	5
I	268	4
I	273	4
I	277	4
I	282	4
I	286	3
I	291	3
I	296	3
I	300	3
I	305	3
I	310	3
I	314	2
I	319	2
I	322	2
I	0	0

ROUND NUMBER - 137

PROJECTILE MASS (GM) - 5.832

PROJECTILE TYPE -S+W, JSP, 9MM

PROJECTILE VELOCITY (MPS) -327.74

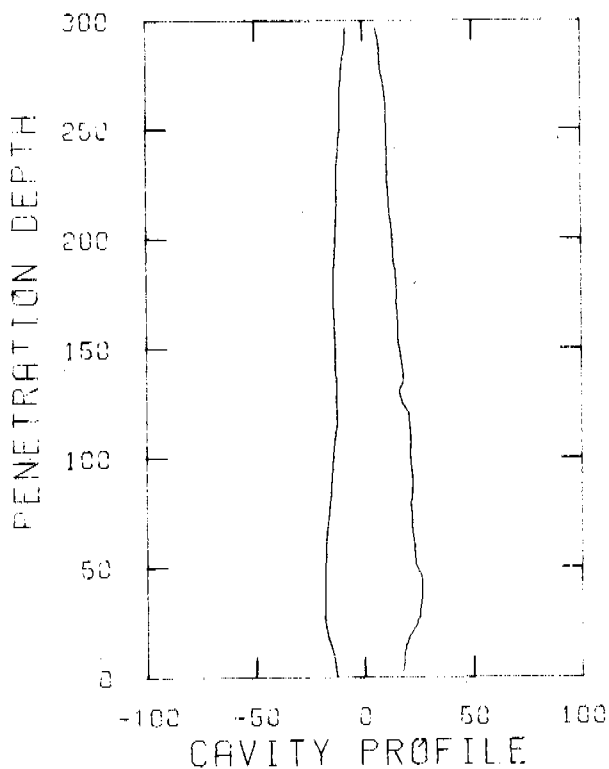
PROJECTILE DIAMETER (CM) - .897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
12	63	63
40	66	67
75	60	61
107	65	66
142	60	61

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	15
I 4	15
I 9	16
I 14	17
I 18	18
I 23	20
I 28	21
I 32	22
I 37	22
I 41	22
I 46	22
I 51	20
I 55	20
I 60	20
I 64	19
I 69	19
I 74	18
I 78	18
I 83	16
I 88	18
I 92	18
I 97	17
I 102	17
I 106	17
I 111	17
I 115	16
I 120	16
I 125	15
I 129	14
I 134	15
I 139	15
I 143	15
I 148	15
I 152	14
I 157	14
I 162	14
I 166	14
I 171	14
I 176	14
I 180	14
I 185	14
I 190	13
I 194	13
I 199	13
I 203	12
I 208	12
I 213	11
I 217	11



ROUND NUMBER 137 CONTINUED

I	222	11
I	227	11
I	231	11
I	236	11
I	241	11
I	245	10
I	250	10
I	254	10
I	259	10
I	264	10
I	268	10
I	273	9
I	277	8
I	282	8
I	287	7
I	291	7
I	296	6
I	301	6
I	305	5
I	310	5
I	315	5
I	319	5
I	324	5
I	0	0

ROUND NUMBER - 136

PROJECTILE MASS (GM) - 5.832

PROJECTILE TYPE - S+W, JSP, 9MM

PROJECTILE VELOCITY (MPS) - 417.53

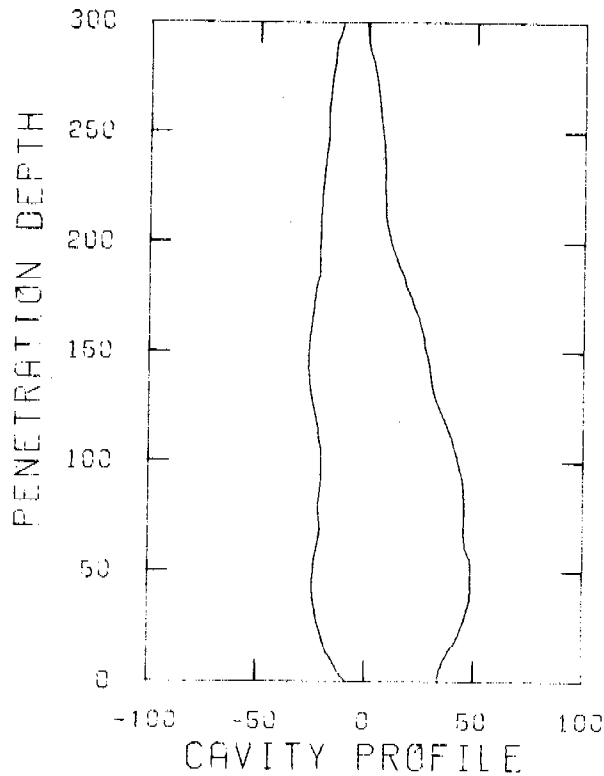
PROJECTILE DIAMETER (CM) - .897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
17	87	87
50	96	96
87	106	109
120	80	80
153	78	78

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	21
I	4	23
I	9	25
I	13	28
I	18	30
I	22	32
I	27	33
I	32	35
I	36	36
I	41	36
I	46	36
I	50	36
I	55	35
I	60	34
I	64	33
I	69	32
I	73	33
I	78	33
I	82	33
I	87	32
I	92	32
I	96	31
I	101	31
I	105	30
I	110	30
I	115	29
I	119	29
I	124	28
I	129	28
I	133	28
I	138	27
I	142	27
I	147	27
I	152	26
I	156	26
I	161	25
I	166	24
I	170	22
I	175	21
I	179	20
I	184	19
I	189	18
I	193	17
I	198	16
I	202	15
I	207	15
I	212	14
I	216	14



ROUND NUMBER 136 CONTINUED

I	221	14
I	226	13
I	230	13
I	235	13
I	239	13
I	244	12
I	249	12
I	254	12
I	258	11
I	263	11
I	267	10
I	272	10
I	276	9
I	281	8
I	285	7
I	290	7
I	295	6
I	299	5
I	304	4
I	309	4
I	313	2

ROUND NUMBER - 135

PROJECTILE MASS (GM) - 5.832

PROJECTILE TYPE -S+W, JSP, 9MM

PROJECTILE VELOCITY (MPS) -474.77

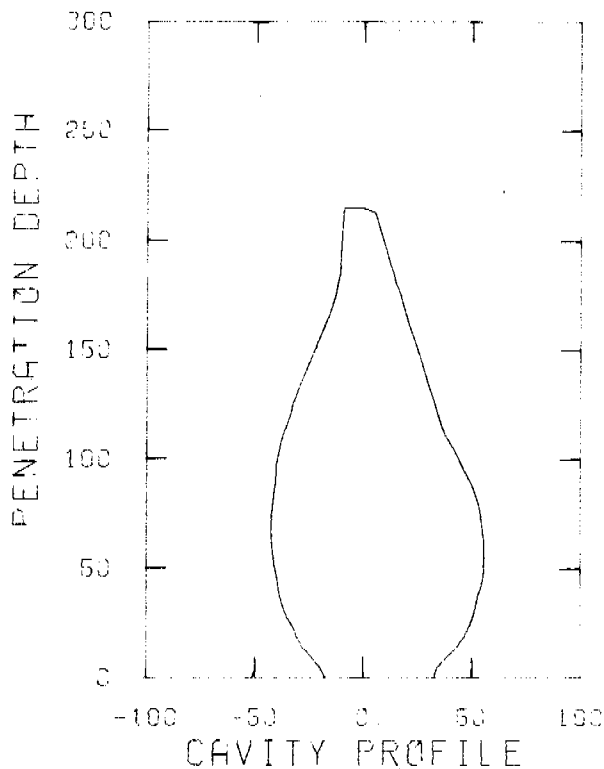
PROJECTILE DIAMETER (CM) - .897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
18	119	119
52	145	145
88	110	123
116	97	107
140	110	110

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	25
I 4	27
I 9	31
I 14	35
I 18	38
I 23	40
I 27	43
I 32	44
I 37	46
I 41	47
I 46	47
I 50	48
I 55	48
I 60	49
I 64	49
I 69	48
I 74	48
I 78	47
I 83	46
I 88	45
I 92	43
I 97	42
I 101	41
I 106	39
I 111	37
I 115	35
I 120	34
I 125	32
I 129	31
I 134	29
I 138	27
I 143	25
I 148	24
I 152	22
I 157	20
I 161	18
I 166	17
I 171	15
I 175	14
I 180	13
I 184	12
I 189	11
I 194	10
I 198	9
I 203	8
I 208	7
I 212	6
I 214	4



ROUND NUMBER - 72

PROJECTILE MASS (GM) - 6.480

PROJECTILE TYPE - 54N, JSP, 9MM

PROJECTILE VELOCITY (MPS) - 462.52

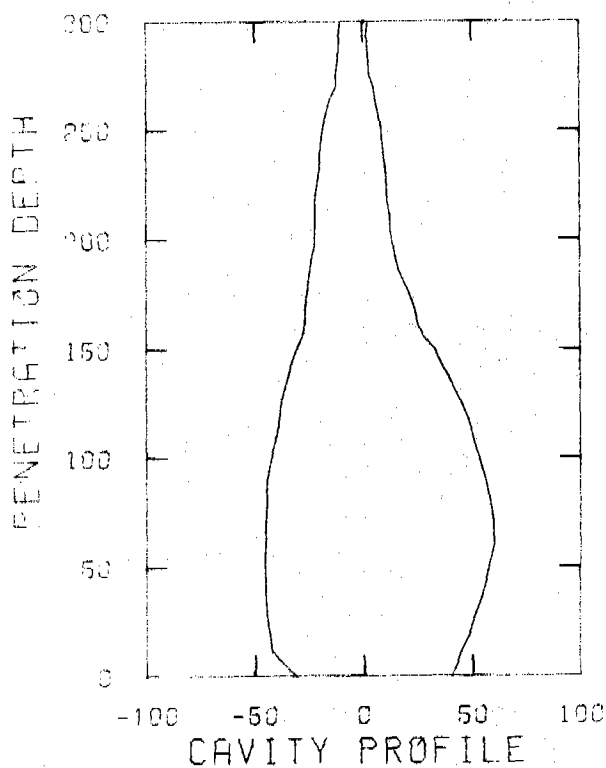
PROJECTILE DIAMETER (CM) - .899

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
12	57	58
48	107	110
88	100	104
123	116	117
153	124	133

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	35
5	39
11	43
17	45
24	47
29	48
35	49
42	50
48	51
54	52
60	52
66	52
72	52
77	51
83	50
90	50
96	48
102	47
107	45
114	44
120	42
125	41
131	38
138	36
144	34
149	31
155	27
161	25
168	25
173	23
179	22
185	20
192	19
198	17
203	17
209	17
215	16
222	16
227	15
233	14
239	14
245	13
251	13
258	11
263	10
269	8
275	7
281	6



ROUND NUMBER 72 CONTINUED

1	287	6
1	293	6
1	299	6
1	305	5
1	312	4
1	317	4
1	323	5
1	327	5
1	328	3

ROUND NUMBER - 116

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE - S+W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) - 190.38

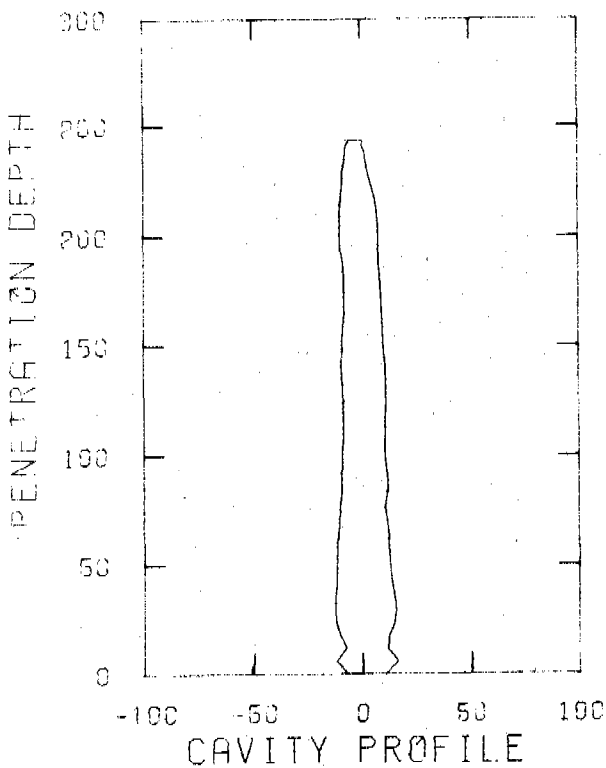
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
3	59	59
19	50	50
41	69	69
60	64	64
81	65	65

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	8
I	5	14
I	11	9
I	17	11
I	23	13
I	29	14
I	35	13
I	41	12
I	47	12
I	53	12
I	58	11
I	64	11
I	70	10
I	76	10
I	82	10
I	88	10
I	94	9
I	99	9
I	105	9
I	111	9
I	117	9
I	123	9
I	129	9
I	135	10
I	141	10
I	147	9
I	152	9
I	158	8
I	164	8
I	170	8
I	176	8
I	182	8
I	188	8
I	194	8
I	200	8
I	205	8
I	211	8
I	217	7
I	223	6
I	229	5
I	235	4
I	238	4
I	240	3
I	243	2
I	0	0



ROUND NUMBER - 125

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -S+W, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) -219.91

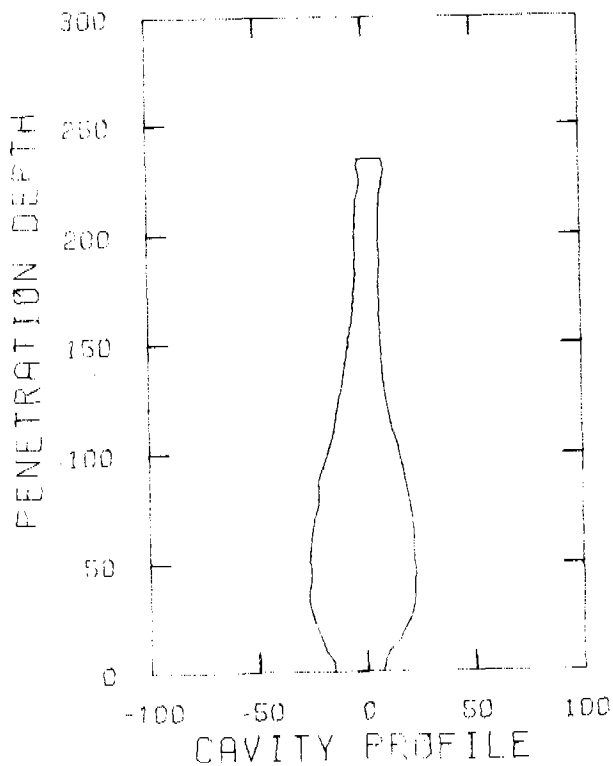
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
5	58	58
23	87	87
45	84	84
67	102	102
88	84	84

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	11
4	11
9	14
14	18
18	19
23	22
28	23
32	24
37	24
42	24
46	24
51	24
56	24
61	24
65	23
70	22
75	21
79	20
84	20
89	19
93	18
98	16
103	15
108	14
112	13
117	12
121	11
126	10
131	9
135	8
140	8
145	7
150	7
154	6
159	6
164	5
168	5
173	5
178	5
182	5
187	5
192	5
197	5
201	5
206	5
211	4
215	5
220	4



OUND NUMBER 125 CONTINUED

I	225	5
I	229	6
I	234	5
I	238	4
I	0	J
I	0	0

ROUND NUMBER - 102

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -S+W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) -235.73

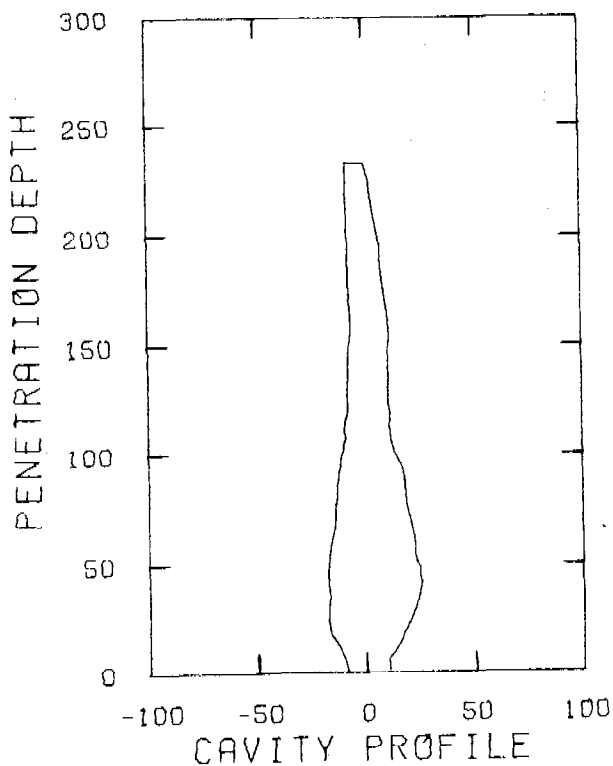
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
6	56	56
24	55	55
49	62	62
71	58	60
94	55	56

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	9
I	6	10
I	12	13
I	17	16
I	23	19
I	30	20
I	35	20
I	41	21
I	47	21
I	53	19
I	59	19
I	65	18
I	71	17
I	77	16
I	83	15
I	89	15
I	95	13
I	101	11
I	107	10
I	113	10
I	118	9
I	124	9
I	130	9
I	136	8
I	142	8
I	148	8
I	154	8
I	160	8
I	166	8
I	172	8
I	178	7
I	184	7
I	190	7
I	196	7
I	202	7
I	207	6
I	213	5
I	219	5
I	225	5
I	227	4
I	230	4
I	232	3



ROUND NUMBER - 115

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE - S+W, JHP6 .357 MAG PROJECTILE VELOCITY (MPS) - 260.74

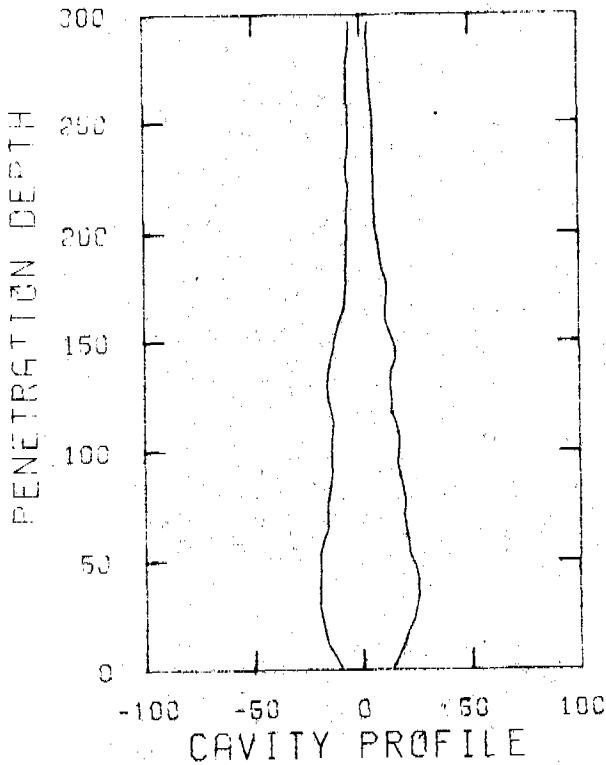
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
7	57	57
28	98	99
55	109	109
81	109	113
108	113	113

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	11
I 5	14
I 11	17
I 17	19
I 23	21
I 29	22
I 35	22
I 41	22
I 47	21
I 53	20
I 59	19
I 65	17
I 71	17
I 77	17
I 83	16
I 88	15
I 94	15
I 100	15
I 106	15
I 112	14
I 118	13
I 124	14
I 130	14
I 136	14
I 142	14
I 148	13
I 154	12
I 160	10
I 165	9
I 171	9
I 177	9
I 183	7
I 189	7
I 195	7
I 201	6
I 207	6
I 213	5
I 219	5
I 225	6
I 231	5
I 236	5
I 242	5
I 248	5
I 254	5
I 260	5
I 266	5
I 272	4
I 278	4



ROUND NUMBER 115 CONTINUED

I	284	4
I	290	3
I	296	4
I	302	4
I	308	4
I	314	4
I	316	4
I	317	3
I	0	0

ROUND NUMBER - 126

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -S+W, JMP, .38 SPEC PROJECTILE VELOCITY (MPS) -264.81

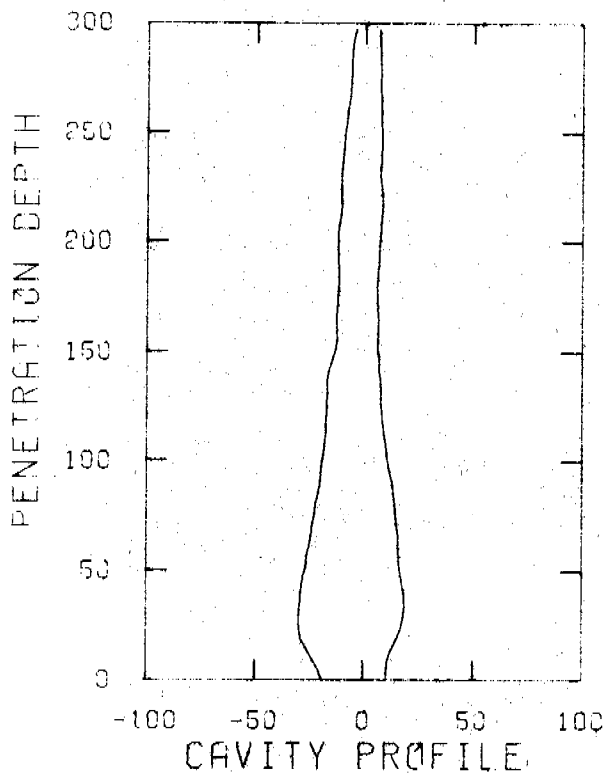
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
7	62	62
28	117	117
56	126	126
82	71	71
110	63	63

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	14
I	4	15
I	9	17
I	14	19
I	19	22
I	23	23
I	28	24
I	33	24
I	37	23
I	47	22
I	52	21
I	56	20
I	61	20
I	66	19
I	71	19
I	75	18
I	80	17
I	84	17
I	89	16
I	94	15
I	99	14
I	104	14
I	108	13
I	113	13
I	118	12
I	122	12
I	127	12
I	132	12
I	136	11
I	141	11
I	146	10
I	151	9
I	155	9
I	160	9
I	165	9
I	169	9
I	174	8
I	179	8
I	184	8
I	188	9
I	193	9
I	198	9
I	203	9
I	207	9
I	212	9
I	217	9
I	221	9
I	226	8



ROUND NUMBER 126 CONTINUED

I	231	8
I	235	8
I	240	8
I	245	8
I	250	8
I	254	7
I	259	7
I	264	7
I	269	6
I	273	6
I	278	6
I	282	6
I	287	6
I	292	5
I	297	5
I	301	4
I	306	4
I	311	4
I	316	4
I	320	5
I	325	5
I	327	5
I	0	0
I	0	0

ROUND NUMBER - 124

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -S+H, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) -296.21

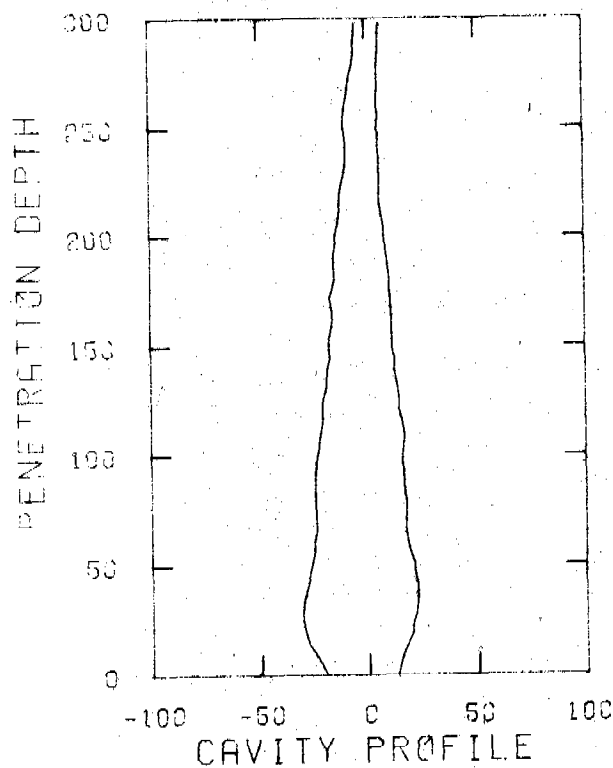
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
9	59	59
32	64	64
64	54	54
93	64	64
123	55	55

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	16
I	4	17
I	9	20
I	14	22
I	18	24
I	23	25
I	27	26
I	32	26
I	37	25
I	41	25
I	46	24
I	50	23
I	55	21
I	60	21
I	65	20
I	69	20
I	74	20
I	79	20
I	83	20
I	88	20
I	93	20
I	97	19
I	102	19
I	107	19
I	111	18
I	116	17
I	121	17
I	125	17
I	130	16
I	134	15
I	139	15
I	144	14
I	148	14
I	153	14
I	158	13
I	162	13
I	167	13
I	172	13
I	176	12
I	181	12
I	186	12
I	190	12
I	195	11
I	200	10
I	204	10
I	209	9
I	213	9
I	218	8



ROUND NUMBER 124 CONTINUED

I	223	8
I	228	7
I	232	7
I	237	7
I	241	7
I	246	7
I	251	7
I	255	7
I	260	6
I	265	6
I	269	6
I	274	5
I	279	5
I	283	5
I	288	5
I	293	5
I	297	5
I	302	5
I	307	5
I	311	5
I	316	5
I	320	5
I	325	5
I	326	5

ROUND NUMBER - 114

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -S+W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) -311.02

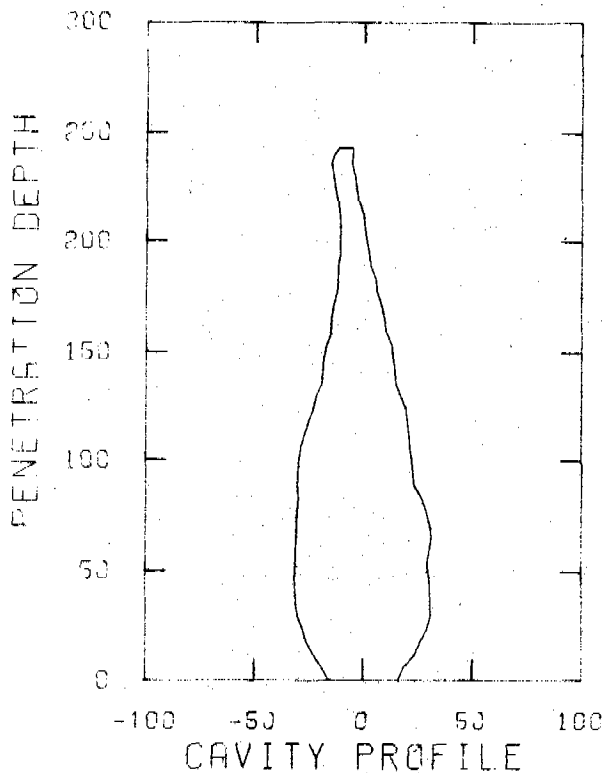
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
9	67	67
34	110	110
64	104	113
90	133	133
115	129	133

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	15
5	18
11	23
17	26
23	28
29	30
35	30
41	31
47	30
53	30
58	30
65	31
70	30
76	29
82	28
88	26
94	26
100	25
106	24
112	23
117	22
124	21
129	18
135	16
141	16
147	15
153	14
159	12
165	11
171	10
177	8
182	8
188	7
194	6
200	5
206	5
212	5
218	4
224	4
230	4
236	4
239	4
241	3
242	2
0	0



ROUND NUMBER - 106

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE - S+W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) - 341.32

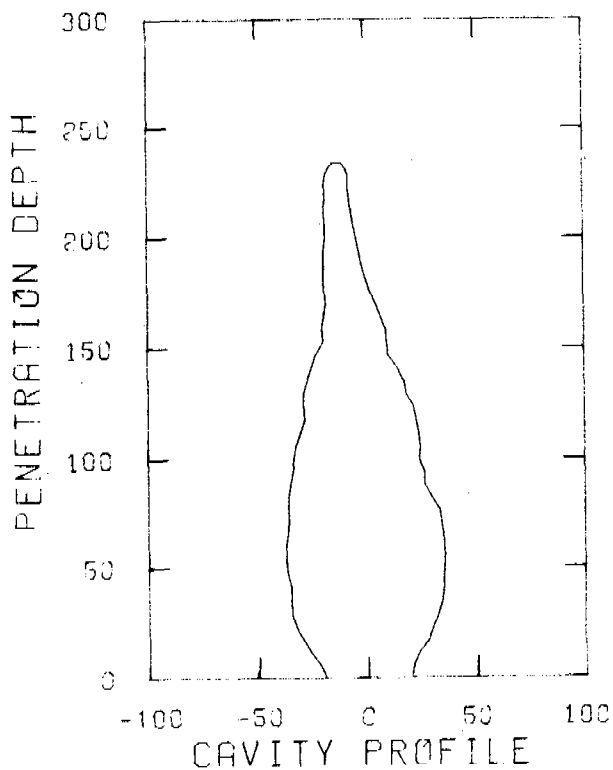
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	94	95
39	146	148
70	145	149
97	164	183
123	146	148

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	19
I	5	21
I	11	24
I	17	29
I	23	31
I	29	33
I	35	34
I	41	35
I	47	36
I	53	36
I	59	36
I	64	35
I	70	34
I	76	34
I	82	32
I	88	30
I	94	30
I	100	28
I	105	28
I	111	26
I	117	25
I	123	25
I	129	23
I	135	22
I	141	19
I	147	16
I	153	14
I	158	14
I	164	12
I	170	11
I	176	10
I	182	9
I	188	8
I	194	7
I	200	6
I	206	6
I	212	6
I	217	5
I	223	5
I	229	4
I	232	3
I	234	1



ROUND NUMBER - 113

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -S+W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) -341.70

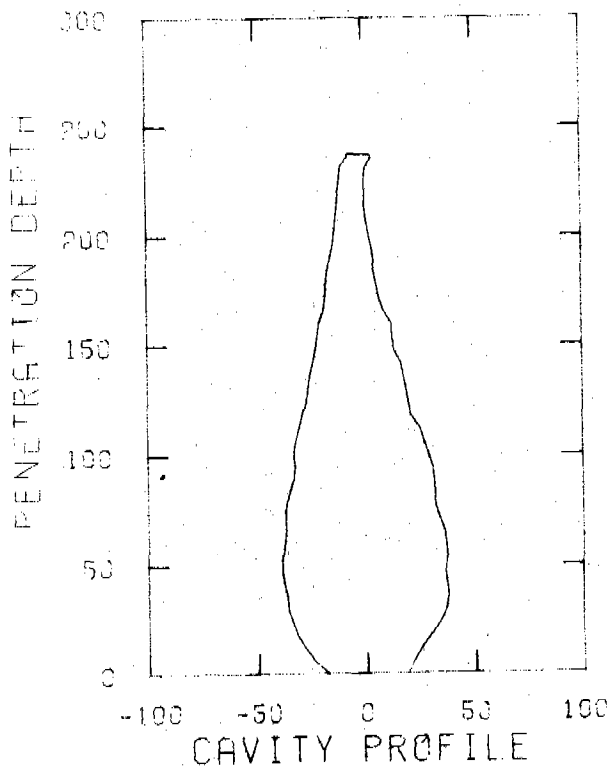
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
12	93	93
37	143	143
68	146	147
94	150	151
120	143	143

I. CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	18
I	5	22
I	11	26
I	17	30
I	23	34
I	29	36
I	35	37
I	41	37
I	47	37
I	53	38
I	59	37
I	65	36
I	71	35
I	77	34
I	83	33
I	88	32
I	94	31
I	100	31
I	106	29
I	112	27
I	118	24
I	124	23
I	130	22
I	136	21
I	142	20
I	148	17
I	154	16
I	160	16
I	166	13
I	172	12
I	178	11
I	184	10
I	189	9
I	195	8
I	201	7
I	207	6
I	213	5
I	219	5
I	225	5
I	231	5
I	235	5
I	237	4



ROUD NUMBER - 84

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -S+W, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) -394.31

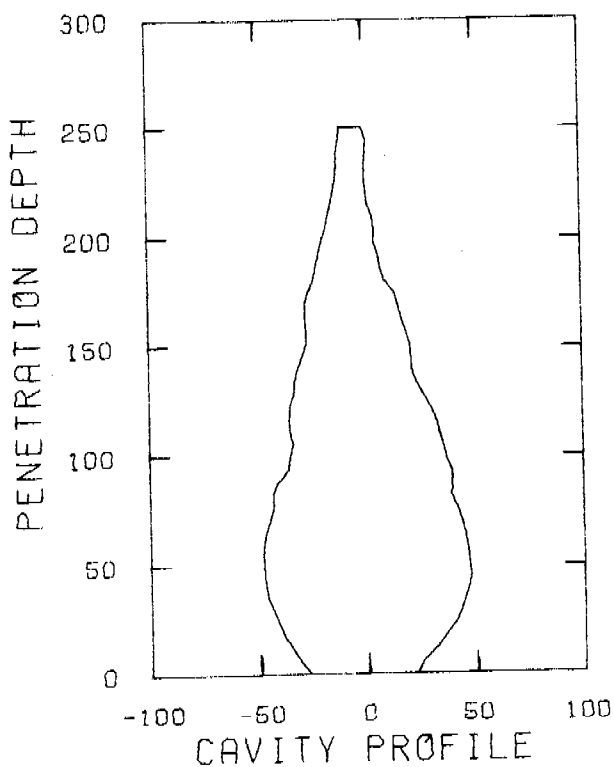
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
19	110	110
48	113	113
82	115	116
111	106	106
138	109	109

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	24
5	28
11	33
17	37
23	40
29	43
35	45
40	47
46	47
52	47
58	47
64	46
69	44
75	42
81	41
87	40
93	37
99	35
105	34
111	34
116	33
122	32
128	29
134	27
139	25
145	24
151	23
157	22
163	22
169	21
174	19
180	16
186	14
192	13
198	11
204	10
209	10
215	8
221	7
227	6
233	6
239	6
245	6
250	4
0	0



ROUND NUMBER - 85

PROJECTILE MASS (GM)- 7.128

PROJECTILE TYPE -S+M, JHP, .357 MAG PROJECTILE VELOCITY (MPS) -526.42

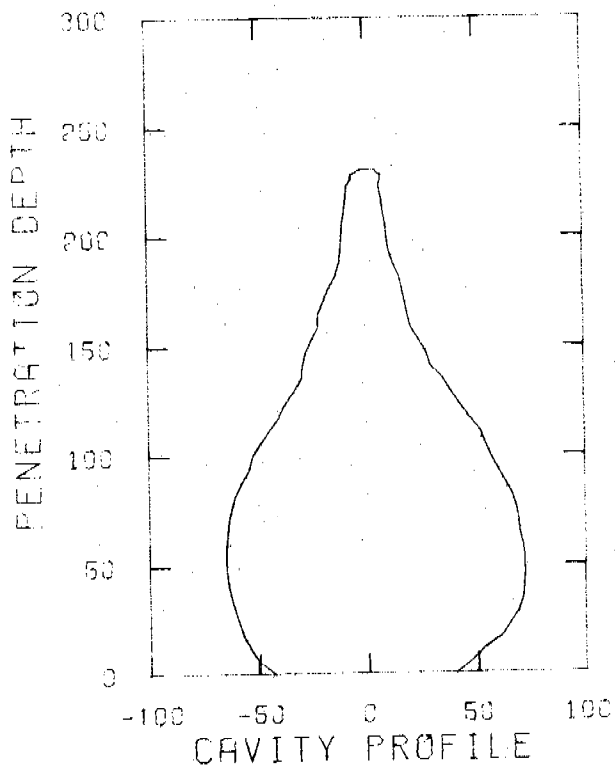
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
25	184	184
59	151	151
96	131	132
124	139	188

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	41
5	48
11	53
17	59
23	62
29	65
35	67
41	68
46	68
52	68
58	68
64	67
70	66
76	65
82	63
88	60
94	56
99	54
105	51
111	48
117	43
123	40
129	35
135	32
141	29
147	27
152	24
158	21
164	20
170	18
176	16
182	14
188	12
194	10
199	10
205	9
211	8
217	7
223	7
226	6
228	6
230	2



ROUND NUMBER - 89

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -S+W, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) -165.29

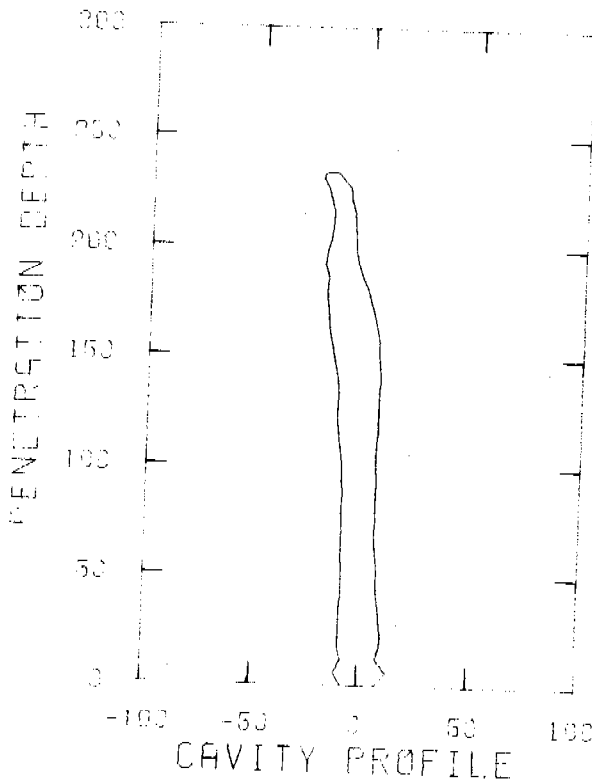
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM ²)	CROSS-SECT AREA (MM ²)
20	56	56
37	50	50
56	59	59

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	7
5	11
11	7
17	9
23	9
29	9
34	8
40	8
46	7
52	7
58	7
63	7
69	7
75	7
81	7
87	7
93	7
99	7
104	7
110	8
116	9
122	9
128	9
133	9
139	9
151	10
157	11
163	11
168	10
174	10
180	9
186	7
192	7
197	6
203	5
209	5
215	4
221	4
227	5
230	4
232	3
233	2



ROUND NUMBER - 92

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE - S&W, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) - 191.46

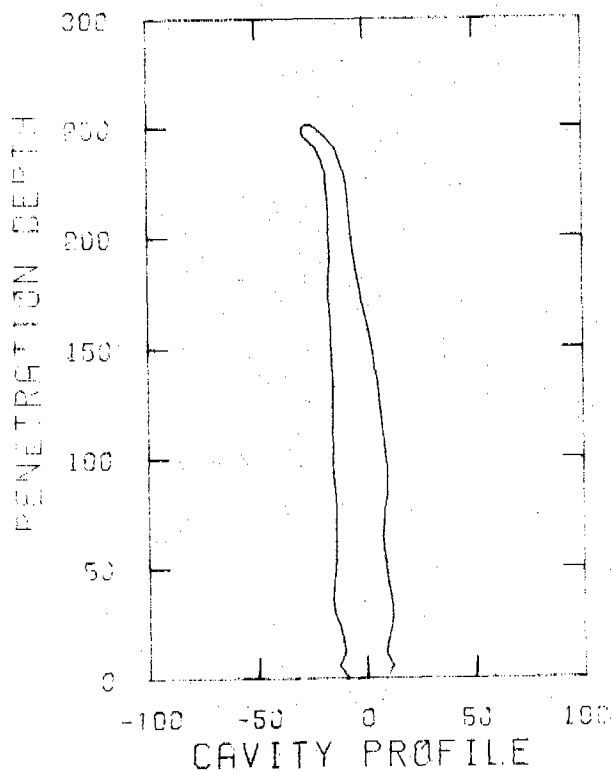
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
4	56	56
20	47	47
43	64	64
63	62	64
86	54	56

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	8
5	12
11	9
17	10
23	11
29	13
35	13
41	12
46	11
52	11
58	10
64	10
70	10
76	10
82	11
88	12
94	12
99	12
105	11
111	11
117	11
123	10
129	10
135	10
140	9
146	9
152	9
158	8
164	8
170	7
176	7
182	6
188	5
193	5
199	5
205	4
211	4
217	4
223	4
229	4
235	4
241	4
246	4
249	3
251	1



ROUND NUMBER - 94

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE - S+M, JHP, .357 MAG PROJECTILE VELOCITY (MPS) - 209.48

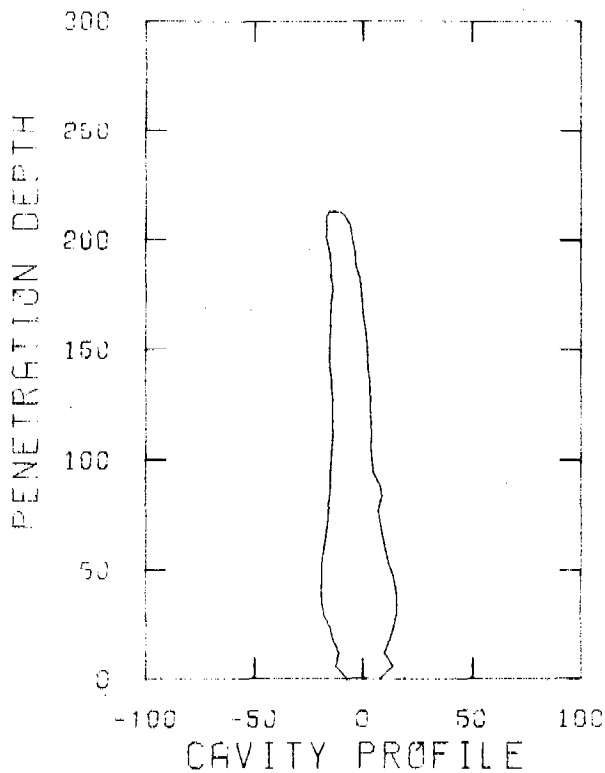
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM ²)	CROSS-SECT AREA (MM ²)
4	57	57
22	78	79
44	71	71
65	89	89
85	83	83

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	7
5	13
11	10
17	12
23	14
29	16
35	17
41	17
47	16
52	15
58	14
64	12
70	11
76	11
82	12
88	11
94	9
100	9
106	8
112	8
118	8
124	8
130	8
135	8
141	8
147	8
153	8
159	7
165	7
171	7
177	6
183	6
188	5
195	5
200	5
206	5
210	4
212	2
0	0



ROUND NUMBER - 99

PROJECTILE MASS (GM)- 8.100

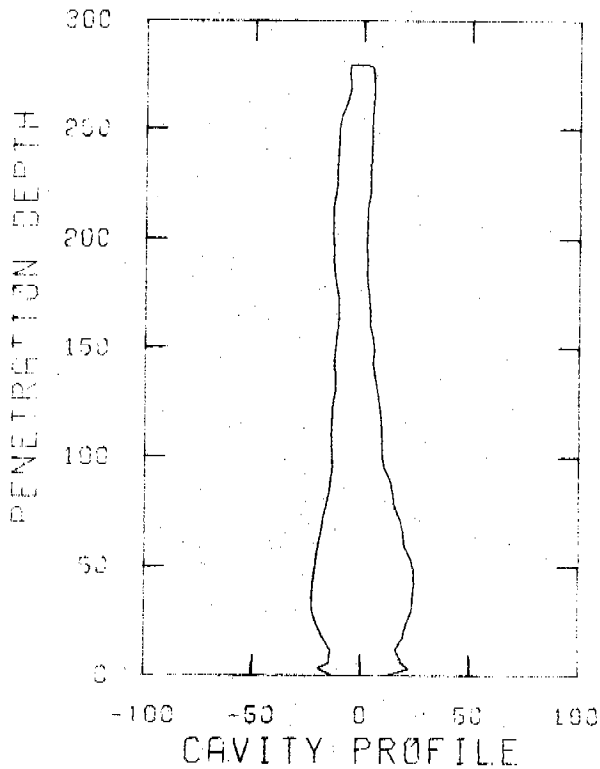
PROJECTILE TYPE -S+M, JHP, .357 MAG PROJECTILE VELOCITY (MPS) -250.25

PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
6	60	60	0	12
26	115	116	3	20
52	119	120	5	16
76	102	102	11	15
102	58	59	17	18



1	23	20
1	29	23
1	35	23
1	41	23
1	47	23
1	53	21
1	59	19
1	65	18
1	71	17
1	77	15
1	83	14
1	89	13
1	95	11
1	101	11
1	107	11
1	113	11
1	119	11
1	125	10
1	131	9
1	136	9
1	143	8
1	148	8
1	154	8
1	160	7
1	166	7
1	172	7
1	178	7
1	184	7
1	190	7
1	196	7
1	202	7
1	208	7
1	214	7
1	220	7
1	226	7
1	232	7
1	238	7
1	244	7
1	250	7
1	256	7
1	262	5
1	268	5
1	273	5

ROUND NUMBER 99 CONTINUED

1	276	5
1	277	5
1	279	4

ROUND NUMBER - 91

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE - S+M, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) - 259.63

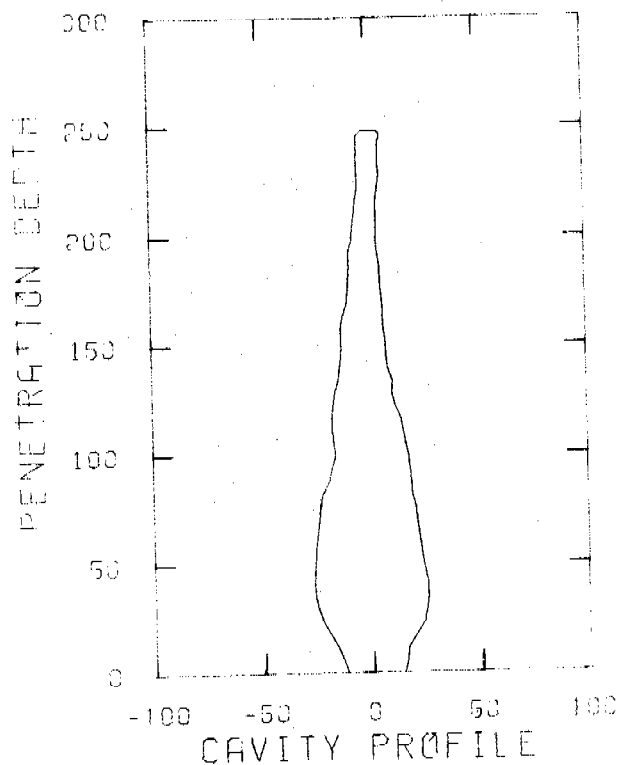
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	58	58
28	131	131
55	123	124
79	131	132
104	127	128

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	13
5	14
11	16
17	19
23	23
29	25
34	26
40	26
46	25
52	24
58	24
64	23
69	22
75	21
81	20
87	18
93	17
99	16
104	16
110	16
116	15
122	14
128	13
133	12
139	10
145	10
151	10
157	9
163	8
168	7
174	7
180	7
186	6
192	6
198	5
203	5
209	4
215	4
221	4
227	4
232	4
239	4
242	4
245	5
247	3



ROUND NUMBER - 98

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -S+M, JHP, .357 MAG. PROJECTILE VELOCITY (MPS) -278.61

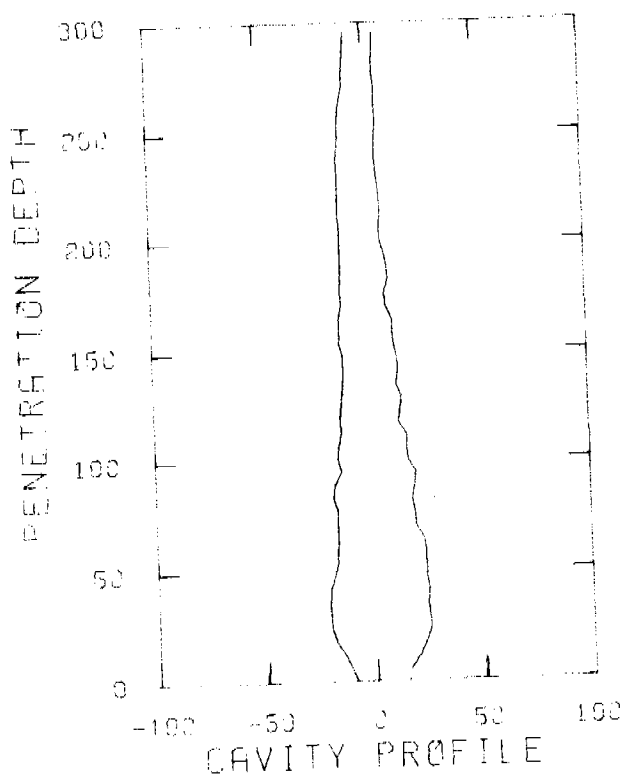
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
7	55	55
30	64	64
60	61	61
89	69	69
118	60	61

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	11
5	13
11	17
17	20
23	22
29	22
35	22
41	22
47	21
53	20
58	20
64	19
70	18
76	17
82	17
88	18
94	17
100	16
106	15
112	14
117	13
123	13
129	13
135	12
141	12
147	12
153	12
159	12
165	12
171	10
177	10
182	10
188	10
194	10
200	9
206	9
212	9
218	9
224	9
230	8
236	8
241	8
247	8
253	8
259	8
265	7
271	7
277	6



ROUND NUMBER 98 CONTINUED

1	283	6
1	289	6
1	294	6
1	300	5
1	306	5
1	312	4
1	318	4
1	321	3
1	322	2

ROUND NUMBER - 90

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE - S+M, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) - 303.28

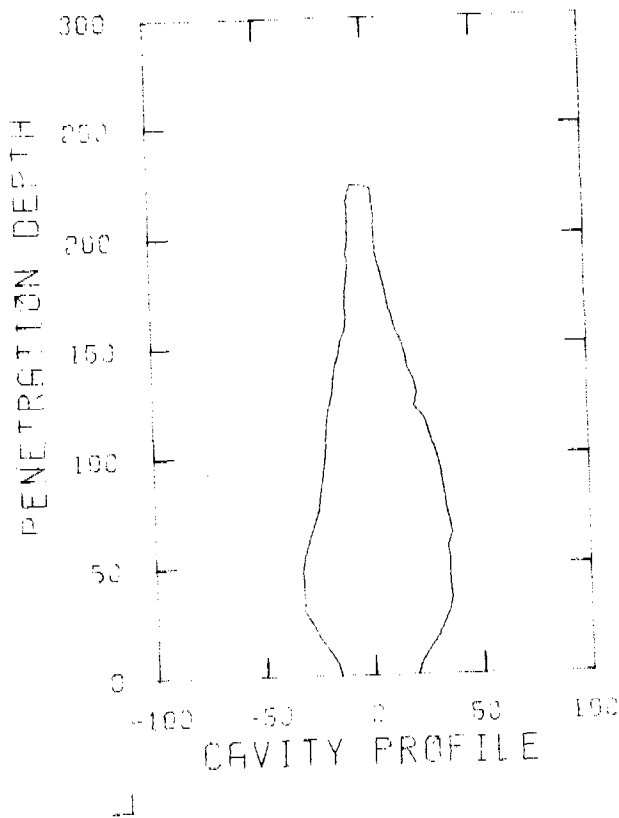
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
10	63	63
32	138	139
61	142	143
87	149	149
111	146	148

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	17
5	19
11	23
17	27
23	30
29	33
35	34
41	34
47	34
52	33
58	32
64	32
70	30
76	29
81	28
87	27
93	26
99	25
105	24
111	23
116	22
122	19
128	19
134	18
140	16
145	15
151	13
157	11
163	10
169	9
174	9
181	7
186	6
192	6
198	5
204	5
210	5
216	5
221	4
223	2
0	0
0	0



ROUND NUMBER - 97

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE - S+M, JHP, .357 MAG PROJECTILE VELOCITY (MPS) - 306.64

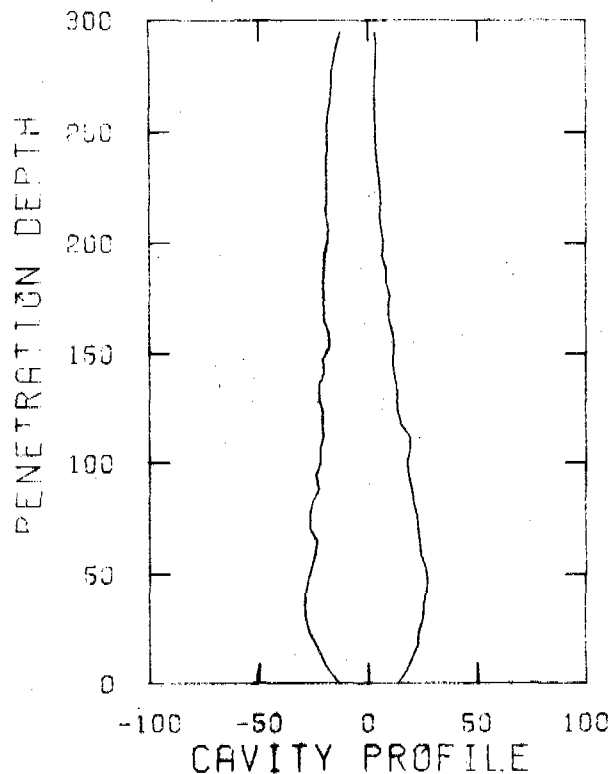
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
9	55	55
34	54	54
67	54	55
97	54	55
129	50	54

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	13
5	17
11	20
17	23
23	25
29	27
35	27
41	27
47	27
53	26
58	24
64	23
70	24
76	24
82	23
88	21
94	21
100	19
106	20
112	19
117	18
123	17
129	17
135	17
141	15
147	15
153	14
159	14
165	14
170	14
176	15
182	14
188	14
194	13
200	12
206	11
212	12
218	12
224	12
230	12
235	11
241	11
247	10
253	10
259	10
265	9
271	9
276	9



ROUND NUMBER 97 CONTINUED

J	282	9
I	288	8
I	294	7
I	300	6
I	306	6
I	312	5
I	316	6
I	318	4
I	321	2

ROUND NUMBER - 83

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE - S+W, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) - 329.16

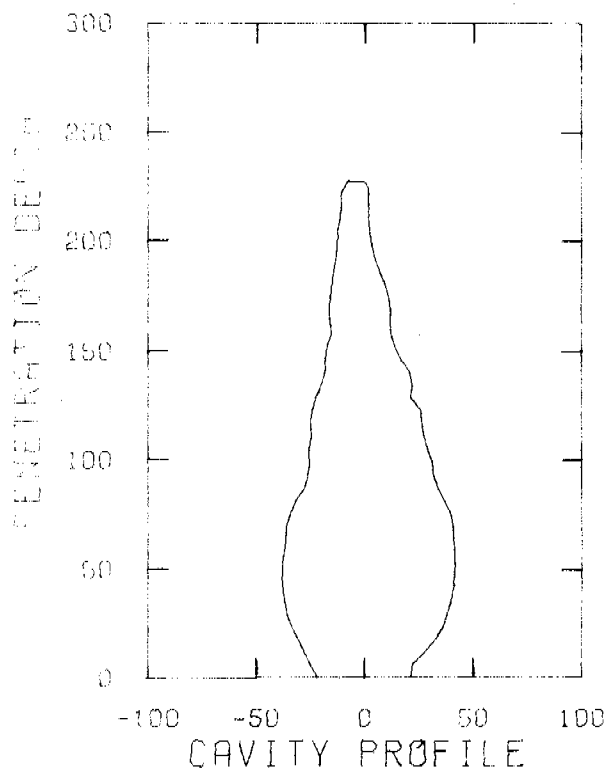
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
15	89	89
39	199	199
69	177	179
95	204	204
119	188	189

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	21
5	23
11	27
17	31
23	34
28	37
35	38
40	39
46	39
52	40
58	39
64	38
69	38
76	36
81	34
87	30
93	28
99	28
105	27
111	25
116	25
123	24
128	21
134	20
140	19
146	17
152	15
158	13
163	13
169	13
175	12
181	11
187	10
193	8
198	7
204	7
210	6
216	5
222	5
224	5
226	4
227	3



ROUND NUMBER - 96

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE - S+M, JHP, .357 MAG PROJECTILE VELOCITY (MPS) - 355.24

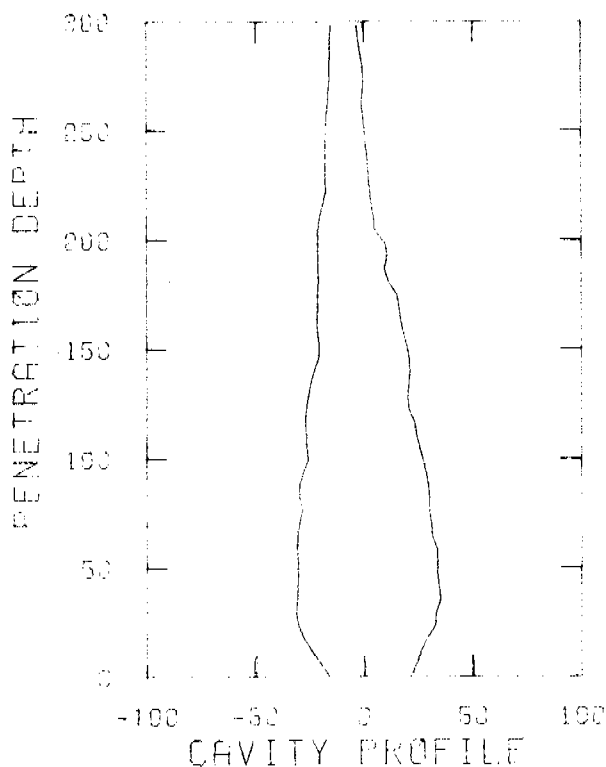
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
11	84	84
39	58	58
75	60	60
108	57	57
141	63	65

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	18
5	21
11	25
17	28
23	31
29	32
35	33
41	32
46	32
52	32
58	32
64	31
70	30
75	29
81	29
87	29
93	28
99	26
105	25
110	25
116	25
122	23
128	22
134	22
140	21
145	20
151	19
157	19
163	19
169	18
175	18
180	16
186	15
192	15
198	15
204	12
210	12
215	11
221	10
227	9
233	9
239	9
245	9
251	8
257	8
262	7
268	7
274	7



ROUND NUMBER 96 CONTINUED

1	280	7
1	286	6
1	291	8
1	297	5
1	303	6
1	309	6
1	311	5
1	315	2
1	315	1

ROUND NUMBER - 95

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -S+W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) -387.29

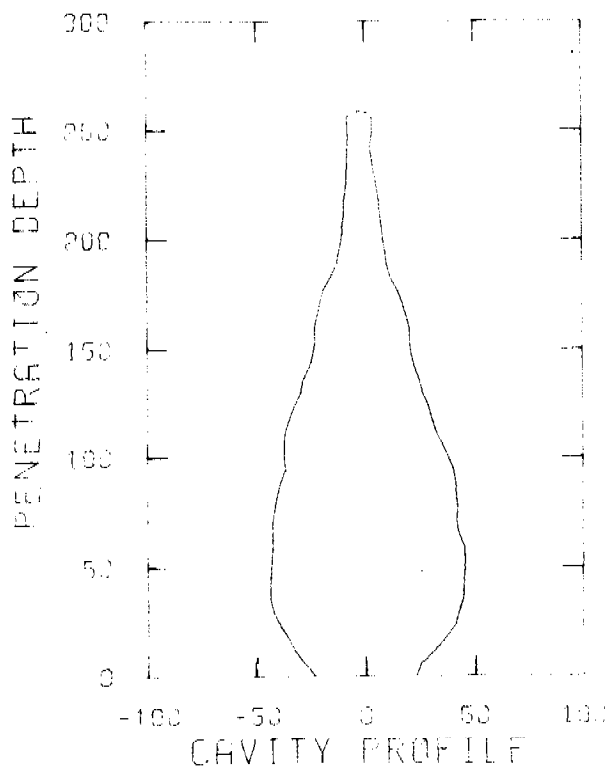
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	105	105
42	126	126
77	123	124
106	128	129
133	121	121

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	23
5	26
11	31
17	36
23	40
29	42
35	44
41	44
47	44
53	44
58	44
65	42
70	42
76	42
82	41
88	40
94	38
100	37
106	36
112	34
118	32
124	30
129	27
135	26
141	24
147	22
153	21
159	21
165	20
170	18
177	16
182	13
188	11
194	10
200	9
206	8
212	7
218	7
223	6
229	5
235	5
242	4
247	5
253	5
255	5
257	3
258	1
0	0



ROUND NUMBER - 88

PROJECTILE MASS (GM) - 0.100

PROJECTILE TYPE - S+M. JHP, .357 MAG PROJECTILE VELOCITY (MPS) - 544.29

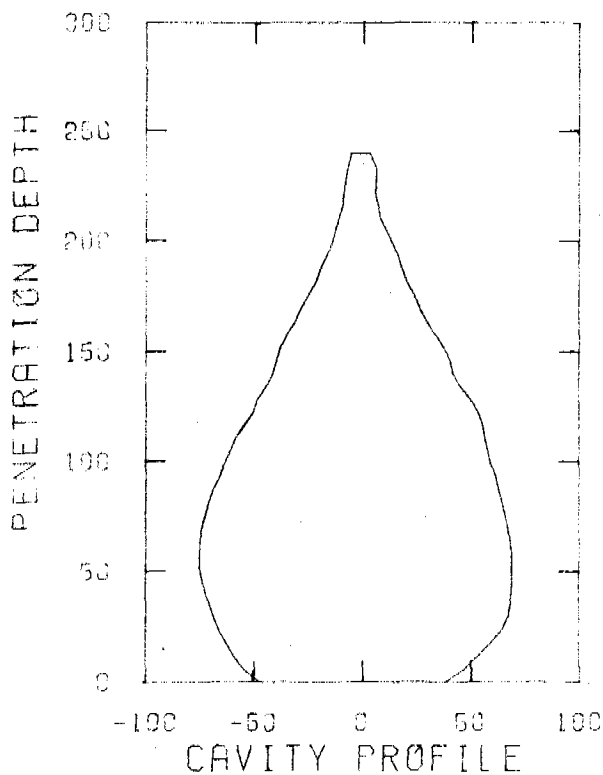
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
23	144	144
58	175	175
99	185	185
130	222	228
157	225	226

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	42
I	5	50
I	11	56
I	17	61
I	23	65
I	29	68
I	34	69
I	40	70
I	46	71
I	52	72
I	58	72
I	64	71
I	70	70
I	75	69
I	81	67
I	87	65
I	93	63
I	99	61
I	105	59
I	111	57
I	117	54
I	122	51
I	128	49
I	134	44
I	140	41
I	146	39
I	151	37
I	157	34
I	163	30
I	169	27
I	175	24
I	181	20
I	187	18
I	192	16
I	198	13
I	204	11
I	210	9
I	216	7
I	222	6
I	228	6
I	233	6
I	239	3



ROUND NUMBER - 93

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE - S+M, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) - 560.29

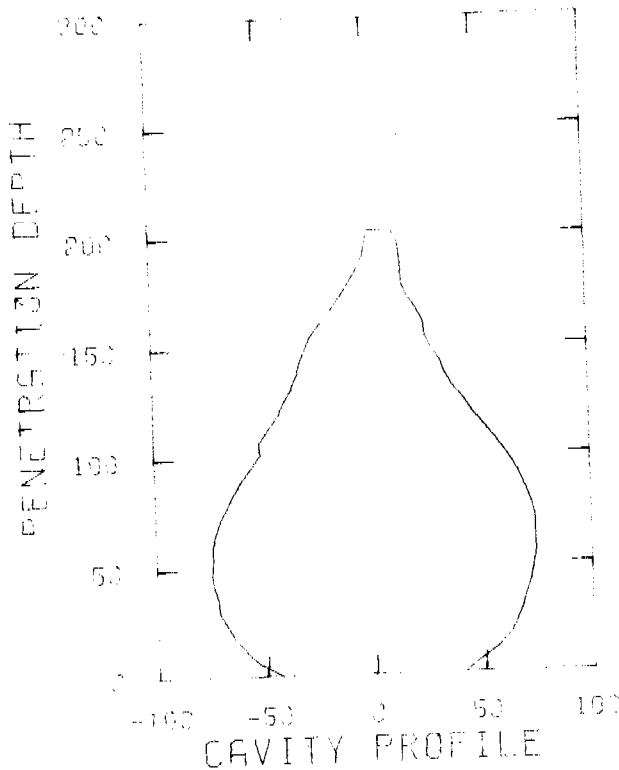
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM ²)	CROSS-SECT AREA (MM ²)
22	197	197
57	168	168
94	209	210
121	209	210
144	220	222

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	41
6	50
11	57
17	63
24	67
29	69
35	71
41	72
47	73
53	74
59	74
65	73
71	72
77	69
83	67
89	64
95	60
101	56
107	54
113	49
119	44
125	41
131	36
137	33
143	32
149	28
154	26
161	23
166	19
172	15
178	12
184	10
190	8
196	7
199	6
202	4



ROUND NUMBER - 100

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -S+W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) -153.71

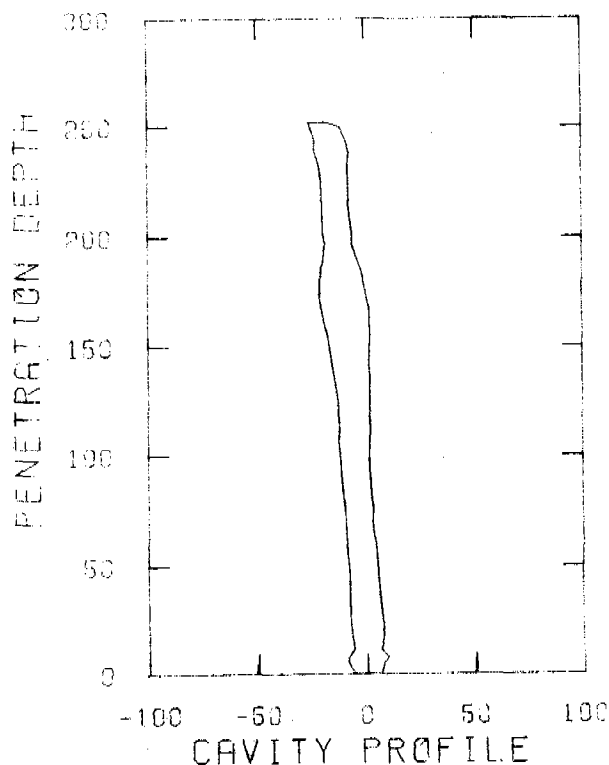
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
1	53	53
17	59	59
34	63	63
53	55	55
73	59	59

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
1	0
1	5
1	7
1	11
1	17
1	23
1	29
1	35
1	41
1	47
1	53
1	59
1	65
1	71
1	77
1	83
1	89
1	95
1	101
1	107
1	112
1	119
1	125
1	130
1	136
1	142
1	148
1	154
1	160
1	166
1	172
1	178
1	184
1	190
1	196
1	202
1	208
1	214
1	220
1	226
1	232
1	238
1	243
1	250
1	252



ROUND NUMBER - 123

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -S+W, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) -230.56

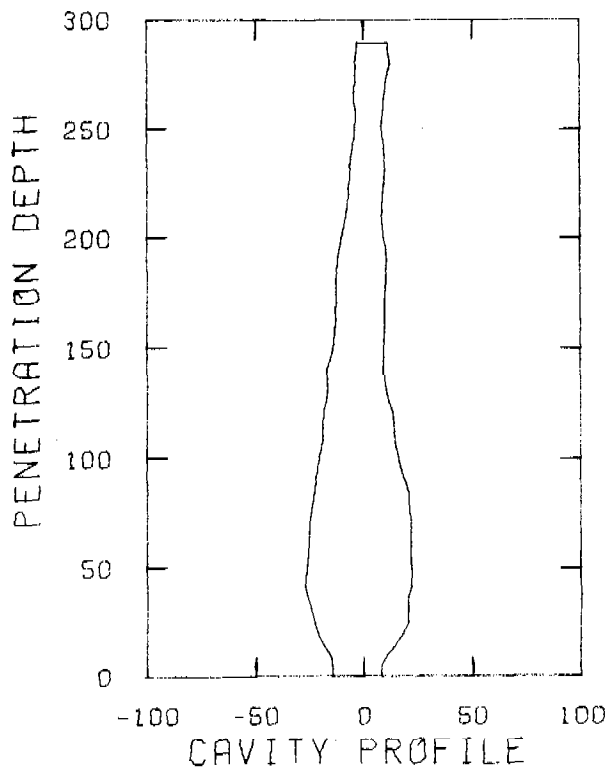
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
7	99	100
49	98	98
53	98	99
96	90	90

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	11
I	4	11
I	9	12
I	14	16
I	18	19
I	23	21
I	27	22
I	32	22
I	37	23
I	42	24
I	46	24
I	51	24
I	56	23
I	60	23
I	65	23
I	70	23
I	74	22
I	79	22
I	84	21
I	88	20
I	93	19
I	98	18
I	102	17
I	107	16
I	111	16
I	116	16
I	121	15
I	126	14
I	130	13
I	135	12
I	140	12
I	144	12
I	149	11
I	154	11
I	158	11
I	163	10
I	168	10
I	172	10
I	177	11
I	182	11
I	186	11
I	191	10
I	196	10
I	200	9
I	205	8
I	210	7
I	214	7
I	219	7



ROUND NUMBER 123 CONTINUED

I	224	7
I	228	7
I	233	7
I	238	7
I	242	6
I	247	6
I	252	5
I	256	5
I	261	6
I	266	6
I	270	6
I	275	7
I	280	7
I	284	7
I	289	6
I	293	6
I	0	0
I	0	0

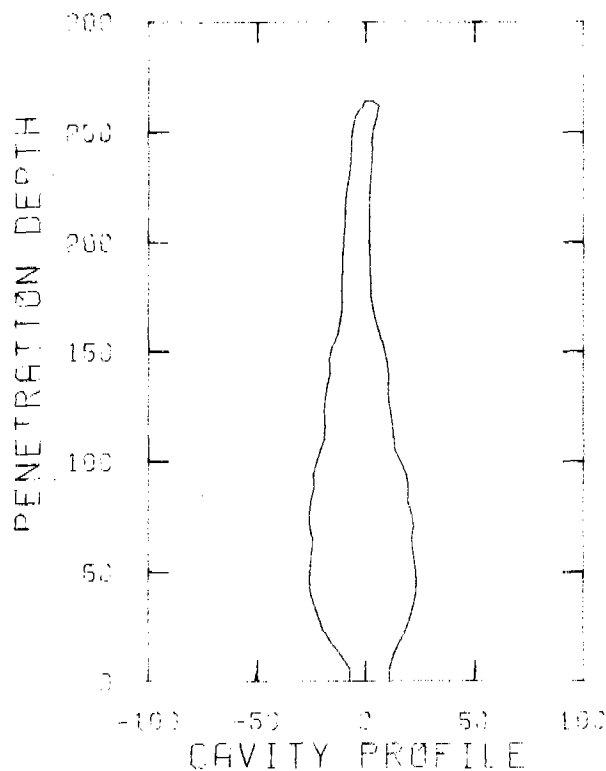
ROUND NUMBER - 101

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -S+W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) -240.00

PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION			I CAVITY MEASUREMENTS	
PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)	I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
6	62	62	I 0	9
26	99	99	I 6	9
51	94	95	I 11	12
75	114	116	I 17	15
99	103	103	I 23	19
			I 29	21
			I 35	23
			I 40	24
			I 46	24
			I 52	24
			I 58	23
			I 64	22
			I 70	24
			I 76	23
			I 82	22
			I 87	21
			I 93	21
			I 99	19
			I 105	17
			I 111	15
			I 117	15
			I 122	15
			I 128	14
			I 134	13
			I 140	13
			I 146	13
			I 151	11
			I 157	9
			I 163	8
			I 169	6
			I 175	6
			I 181	6
			I 187	6
			I 193	6
			I 199	5
			I 204	5
			I 210	5
			I 216	5
			I 222	5
			I 228	4
			I 234	4
			I 239	4
			I 245	4
			I 251	4
			I 257	4
			I 260	4
			I 262	3
			I 264	1



ROUND NUMBER - 107

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -S+W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) -276.34

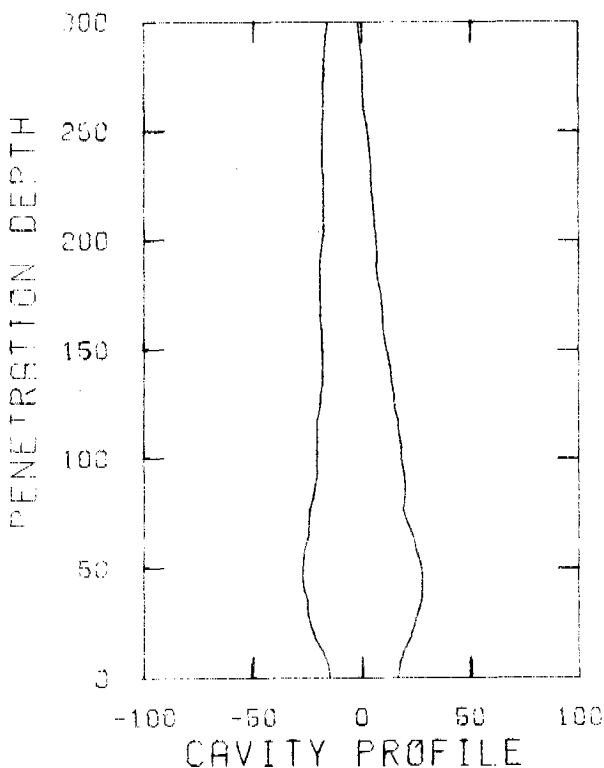
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
9	61	61
30	52	52
61	61	61
90	63	63
121	71	71

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	15
I	6	16
I	11	18
I	17	22
I	23	23
I	29	25
I	35	26
I	40	27
I	47	27
I	52	26
I	58	25
I	64	24
I	70	22
I	76	21
I	82	20
I	88	20
I	94	19
I	99	19
I	105	19
I	112	18
I	117	18
I	123	16
I	129	16
I	135	15
I	140	15
I	146	14
I	152	14
I	158	14
I	164	14
I	170	14
I	176	13
I	182	13
I	188	13
I	193	12
I	199	12
I	205	11
I	211	11
I	217	11
I	222	10
I	228	10
I	234	11
I	240	10
I	246	10
I	252	10
I	258	9
I	264	8
I	269	8
I	275	8



ROUND NUMBER 107 CONTINUED

I	281	8
I	287	7
I	293	7
I	299	6
I	305	6
I	310	6
I	316	5
I	322	5
I	326	4

ROUND NUMBER - 82

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -S+M, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) -319.16

PROJECTILE DIAMETER (CM) - .907

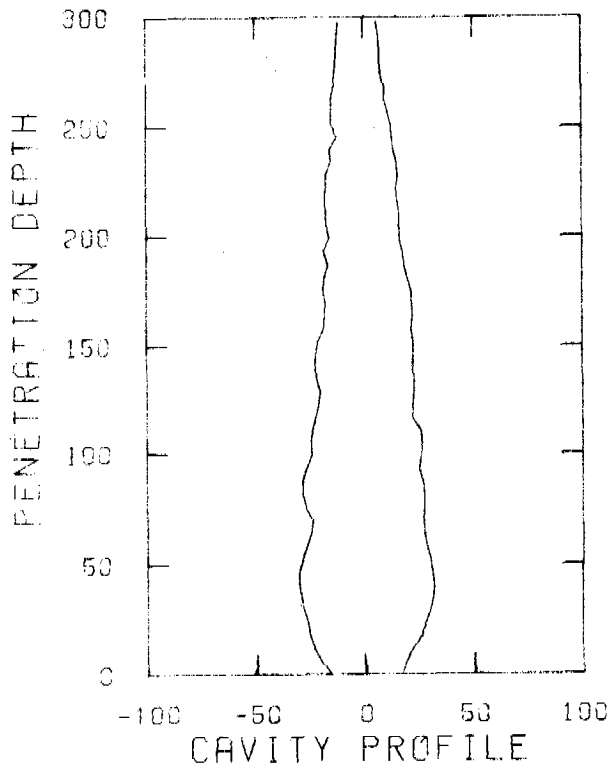
PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	58	58
40	66	66
76	60	60
109	76	76
144	61	61

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
------------------------------	----------------------

0	16
5	19
11	22
17	25
23	27
29	29
34	30
41	31
46	30
52	29
58	27
64	25
70	25
75	27
81	27
87	27
93	25
99	25
105	25
110	24
116	22
122	21
128	21
134	22
140	22
145	22
151	21
157	20
163	20
169	19
175	20
180	19
186	17
192	18
198	16
204	16
210	16
216	16
221	16
227	16
233	14
239	14
245	12
251	13
256	12
262	12
268	11
274	10



ROUND NUMBER 82 CONTINUED

1	280	9
1	286	9
1	291	9
1	297	8
1	303	8
1	309	7
1	315	6
1	316	5
1	316	3

ROUND NUMBER - 108

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -S+W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) -345.58

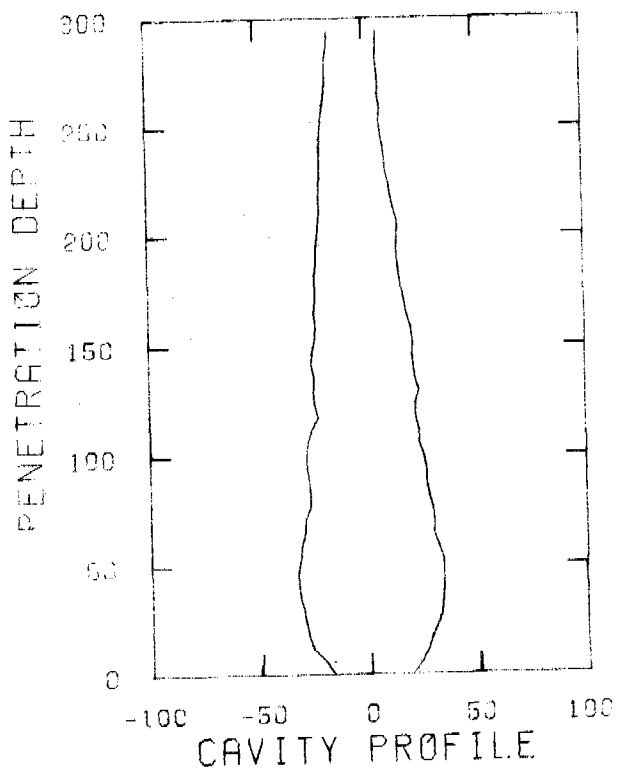
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
12	93	93
40	66	67
78	65	65
112	60	60
150	66	66

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	I CAVITY RADIUS(MM)
I 0	17
I 5	21
I 11	26
I 17	28
I 23	30
I 29	31
I 35	32
I 41	33
I 47	33
I 52	32
I 58	31
I 64	29
I 70	29
I 76	27
I 82	27
I 88	26
I 94	27
I 99	26
I 105	25
I 111	24
I 117	22
I 123	23
I 129	24
I 135	22
I 141	23
I 147	22
I 153	22
I 158	21
I 164	21
I 170	20
I 176	19
I 182	19
I 188	18
I 194	18
I 200	18
I 206	17
I 211	16
I 217	16
I 223	15
I 229	14
I 235	14
I 241	14
I 247	13
I 253	13
I 258	12
I 264	12
I 270	11
I 276	11



ROUND NUMBER 108 CONTINUED

I	282	11
I	288	11
I	294	10
I	300	10
I	305	9
I	312	8
I	316	8
I	0	0
I	0	0

ROUND NUMBER - 109

PROJECTILE MASS (GM)-10.238

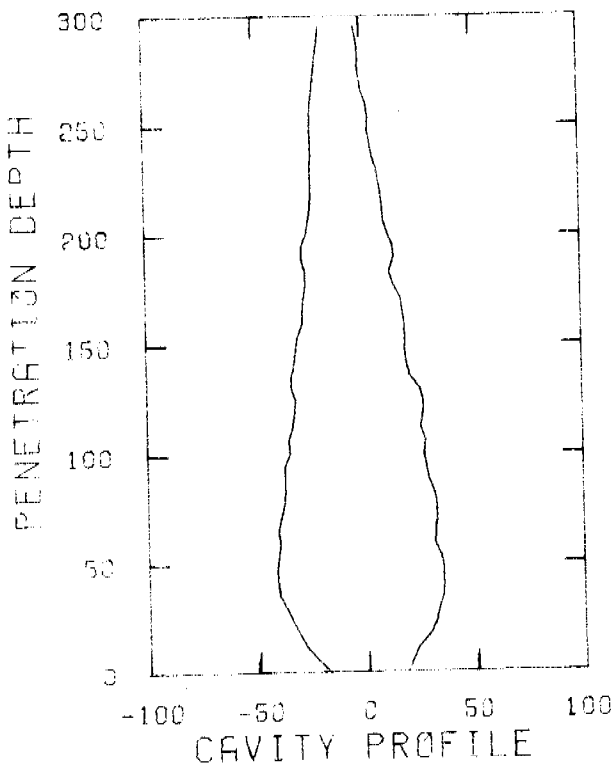
PROJECTILE TYPE -S+W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) -351.96

PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

I CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)	I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
12	57	57	I	0	17
40	61	61	I	5	21
78	65	65	I	11	25
111	63	64	I	17	30
146	70	70	I	23	33



I	29	35
I	35	37
I	41	38
I	47	38
I	53	37
I	58	35
I	65	36
I	71	35
I	77	34
I	82	34
I	88	33
I	94	32
I	100	30
I	106	31
I	112	29
I	118	29
I	123	29
I	130	29
I	135	27
I	141	25
I	147	24
I	153	24
I	159	23
I	165	22
I	171	22
I	177	20
I	183	19
I	189	21
I	195	20
I	200	18
I	206	17
I	212	16
I	218	15
I	224	15
I	230	15
I	236	13
I	242	13
I	248	13
I	254	13
I	260	12
I	265	11
I	271	10
I	277	9

ROUND NUMBER 109 CONTINUED

I	283	9
I	289	8
I	295	7
I	301	7
I	307	6
I	313	6
I	316	6
I	0	0
I	0	0

ROUND NUMBER - 104

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -S+W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) -370.80

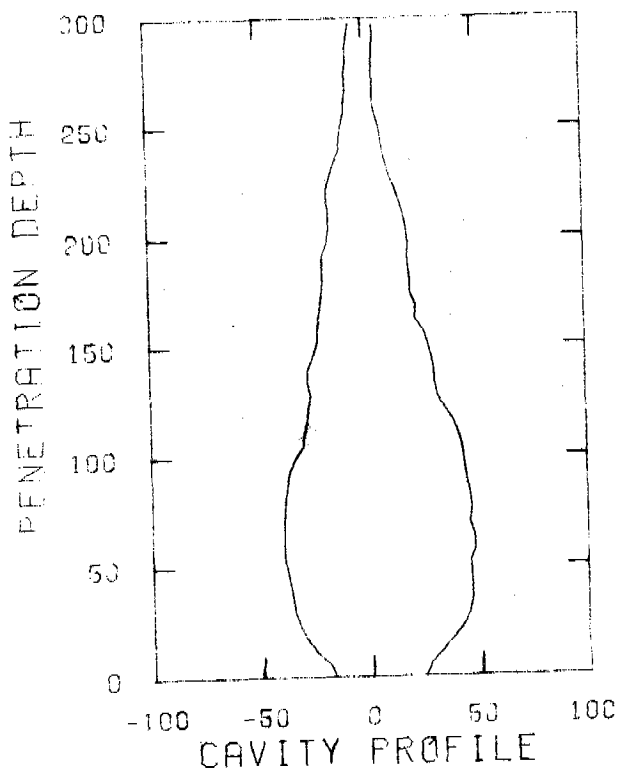
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	97	97
42	106	106
78	116	116
117	124	124
141	107	107

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	I CAVITY RADIUS(MM)
I 0	I 20
I 5	I 23
I 11	I 29
I 17	I 34
I 23	I 37
I 29	I 40
I 34	I 41
I 40	I 41
I 46	I 42
I 52	I 42
I 58	I 44
I 64	I 44
I 69	I 42
I 75	I 43
I 81	I 42
I 87	I 41
I 93	I 40
I 99	I 38
I 104	I 36
I 110	I 35
I 116	I 33
I 122	I 31
I 128	I 28
I 133	I 28
I 139	I 28
I 145	I 27
I 151	I 25
I 157	I 23
I 162	I 21
I 168	I 21
I 174	I 20
I 180	I 19
I 186	I 19
I 192	I 19
I 197	I 18
I 203	I 17
I 209	I 16
I 215	I 16
I 221	I 15
I 227	I 13
I 233	I 11
I 238	I 9
I 244	I 9
I 250	I 8
I 256	I 6
I 262	I 6
I 268	I 5
I 273	I 5



ROUND NUMBER 104 CONTINUED

I	279	5
I	285	5
I	291	5
I	297	4
I	302	4
I	308	4
I	311	4
I	313	2
I	0	0

ROUND NUMBER - 122

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -S+W, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) -385.34

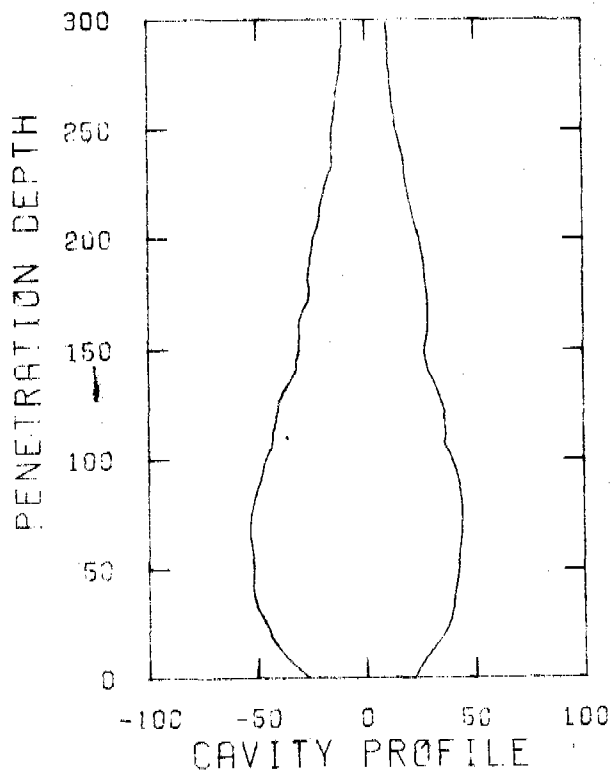
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
26	101	107
80	99	99
93	104	111
145	75	114

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	24
I 4	28
I 9	31
I 14	35
I 18	39
I 23	41
I 28	43
I 32	45
I 37	46
I 42	47
I 46	47
I 51	47
I 56	47
I 60	48
I 65	49
I 70	49
I 74	48
I 79	48
I 84	47
I 88	46
I 93	44
I 98	43
I 102	41
I 107	39
I 112	39
I 116	38
I 121	38
I 126	37
I 130	35
I 135	32
I 140	30
I 144	29
I 149	28
I 154	28
I 158	29
I 163	29
I 168	28
I 172	27
I 177	26
I 181	26
I 186	26
I 191	25
I 195	24
I 200	24
I 205	22
I 209	21
I 214	20
I 219	19



ROUND NUMBER 122 CONTINUED

I	223	18
I	228	17
I	233	16
I	237	15
I	242	15
I	247	14
I	251	14
I	256	13
I	261	12
I	266	12
I	270	11
I	275	11
I	279	10
I	284	10
I	289	10
I	293	10
I	298	9
I	303	9
I	308	9
I	312	8
I	317	8
I	319	8
I	0	0
I	0	0

ROUND NUMBER - 121

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -S+W, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) -391.27

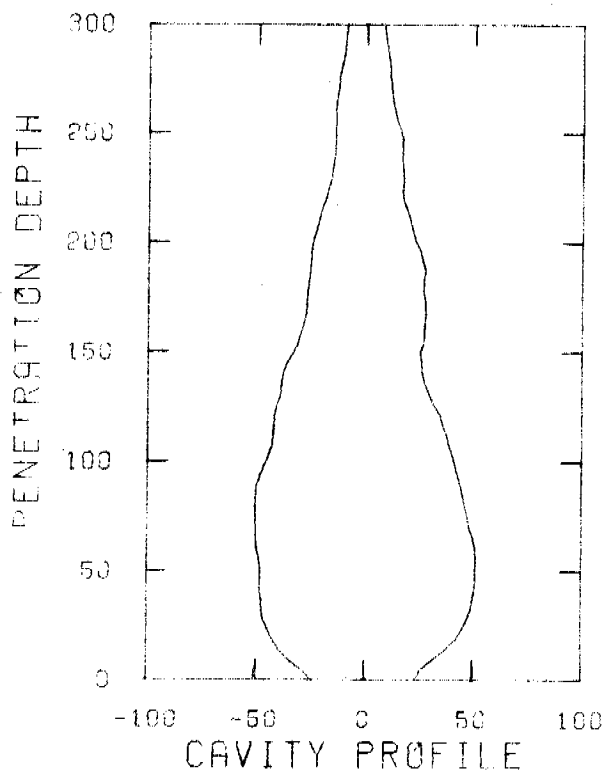
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
28	118	119
81	115	115
94	109	118
144	80	118

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	23
I	4	27
I	9	32
I	13	38
I	18	42
I	23	44
I	28	47
I	32	48
I	36	48
I	42	49
I	46	49
I	51	49
I	55	50
I	60	50
I	65	50
I	70	49
I	74	49
I	79	48
I	84	48
I	88	47
I	93	45
I	98	44
I	102	42
I	107	40
I	112	39
I	116	38
I	121	37
I	126	35
I	130	34
I	135	32
I	140	31
I	145	30
I	149	29
I	154	28
I	159	28
I	163	27
I	168	27
I	173	27
I	177	26
I	182	26
I	187	26
I	191	25
I	196	24
I	201	23
I	205	21
I	210	20
I	215	19
I	219	17



ROUND NUMBER 121 CONTINUED

I	224	16
I	229	16
I	233	16
I	238	15
I	243	15
I	248	15
I	252	14
I	257	13
I	262	13
I	266	12
I	271	11
I	276	11
I	280	10
I	285	9
I	289	9
I	294	8
I	299	8
I	304	7
I	308	7
I	313	7
I	318	7

ROUND NUMBER - 87

PROJECTILE MASS (GM)-10.238

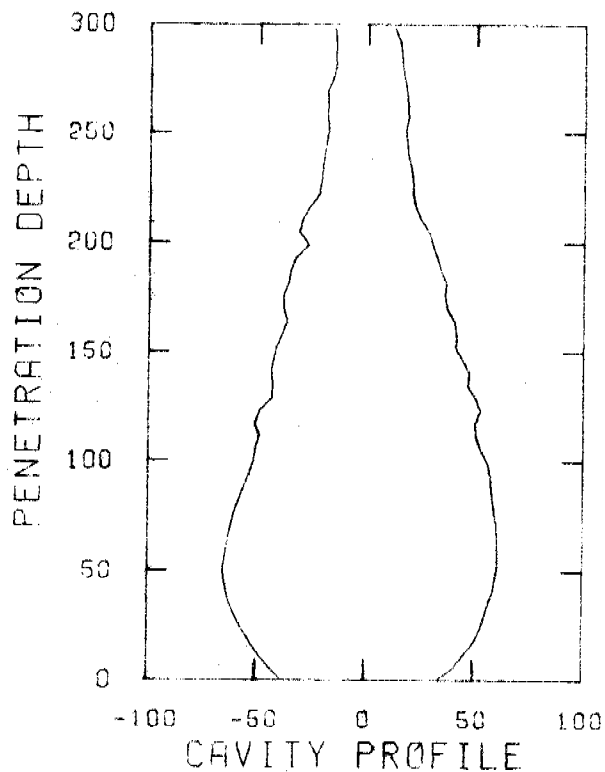
PROJECTILE TYPE -S+M, JHP, .357 MAG PROJECTILE VELOCITY (MPS) -448.12

PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM ²)	CROSS-SECT AREA (MM ²)	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
19	109	109	0	35
52	298	299	5	42
96	155	155	11	47
131	136	136	17	51
166	166	166	23	54



29	57
35	59
41	61
46	62
52	63
58	62
64	62
70	61
76	59
81	58
87	57
93	55
99	53
105	51
111	49
116	50
123	50
128	46
134	44
140	45
145	43
152	41
157	40
163	38
169	37
175	36
181	36
187	34
193	32
198	28
204	29
210	26
216	24
222	21
228	20
234	20
239	19
245	18
251	17
257	18
263	18
269	18
275	16

ROUND NUMBER 87 CONTINUED

I	280	15
I	286	14
I	292	14
I	297	13
I	304	12
I	308	10
I	310	10
I	312	9
I	313	4

ROUND NUMBER - 119

PROJECTILE MASS (GM) - 5.832

PROJECTILE TYPE -S+W,HEMI JSP,.38SP PROJECTILE VELOCITY (MPS) -237.38

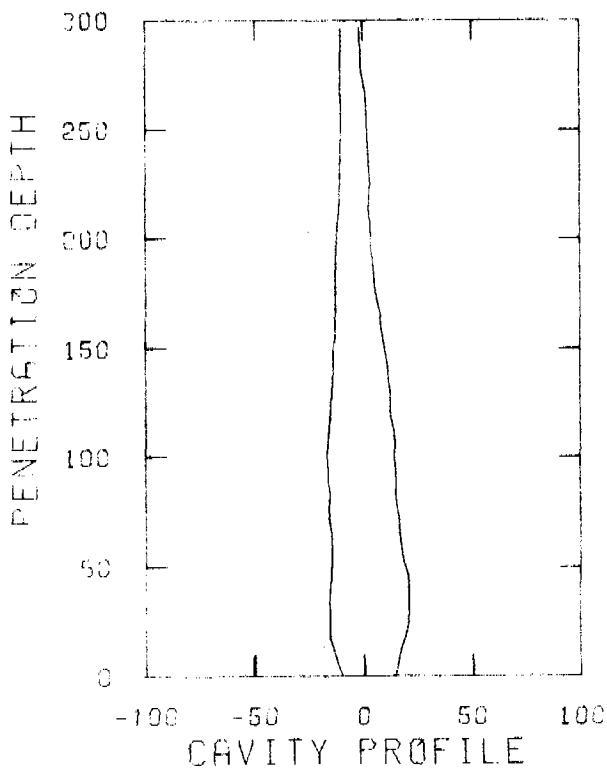
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	58	58
54	60	60
61	59	59
105	61	61

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	12
5	13
11	15
18	17
23	18
29	18
35	18
41	18
47	17
53	16
59	15
65	15
71	16
77	15
83	15
88	15
94	15
100	15
106	15
112	14
118	13
124	13
130	13
136	12
141	12
148	11
153	10
159	10
165	10
171	9
177	8
183	8
189	8
195	7
201	7
207	7
213	6
219	6
225	6
231	6
237	6
243	6
248	5
254	5
260	5
266	5
272	4
278	4



ROUND NUMBER 119 CONTINUED

I	284	4
I	290	4
I	296	4
I	301	3
I	308	3
I	313	3
I	319	3
I	325	3
I	330	2

ROUND NUMBER - 118

PROJECTILE MASS (GM) - 5.832

PROJECTILE TYPE - S+W, HEMI JSP, .38SP PROJECTILE VELOCITY (MPS) - 314.23

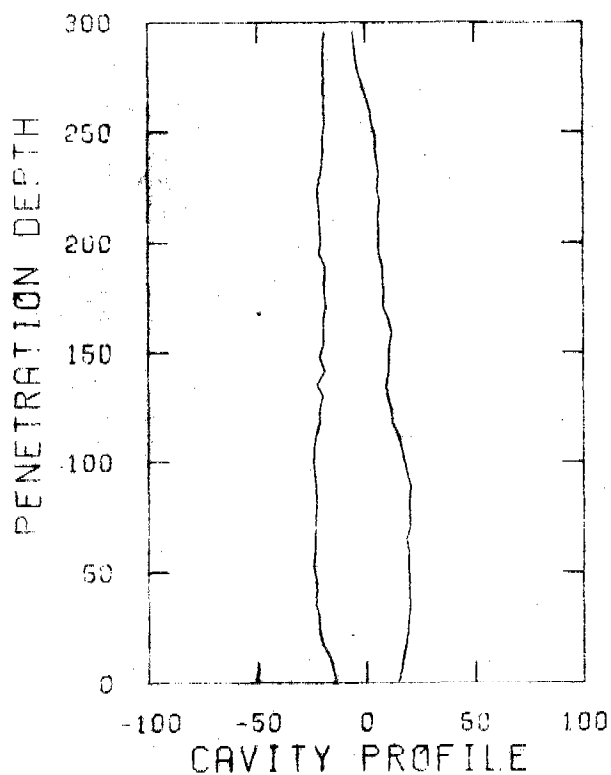
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
22	60	60
71	65	65
84	59	61
135	60	63

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	14
I	5	15
I	11	16
I	17	19
I	23	20
I	29	20
I	35	21
I	41	21
I	47	21
I	53	21
I	59	21
I	65	21
I	71	21
I	77	21
I	82	21
I	88	21
I	94	21
I	100	20
I	106	20
I	112	18
I	118	16
I	124	16
I	130	14
I	135	15
I	141	14
I	147	15
I	153	15
I	158	15
I	165	14
I	171	13
I	177	13
I	183	13
I	189	13
I	194	13
I	200	13
I	206	13
I	212	13
I	218	14
I	224	13
I	230	13
I	236	12
I	242	11
I	247	11
I	254	10
I	259	10
I	265	9
I	271	8
I	277	7



ROUND NUMBER 118 CONTINUED

I	283	7
I	289	6
I	295	6
I	301	6
I	307	5
I	313	5
I	319	5
I	325	4
I	327	4

ROUND NUMBER - 117

PROJECTILE MASS (GM) - 5.832

PROJECTILE TYPE -S+W,HEMI JSP,.38SP PROJECTILE VELOCITY (MPS) -381.00

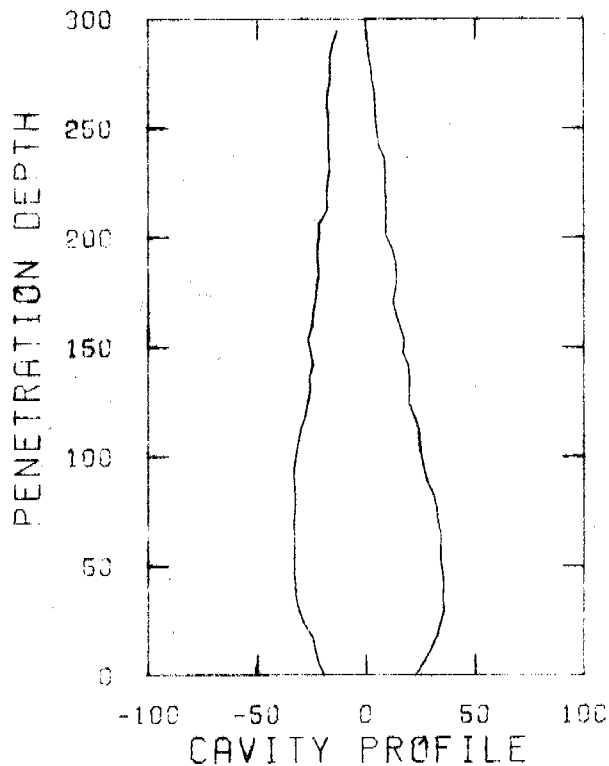
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
15	54	55
42	52	53
81	54	56
113	43	46
146	55	55

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	20
5	24
11	26
17	28
23	31
29	33
35	33
41	34
47	33
53	33
59	33
65	33
70	32
76	32
82	31
88	30
94	29
100	28
106	27
112	26
118	24
124	23
129	22
135	22
141	21
147	20
153	21
159	19
165	18
171	17
177	18
183	17
189	17
194	16
201	15
206	14
212	13
218	13
224	12
230	12
236	12
242	11
247	10
254	10
259	10
266	10
271	9
277	9



ROUND NUMBER 117 CONTINUED

I	283	8
I	289	7
I	295	6
I	300	5
I	306	5
I	311	5
I	315	4
I	0	0
I	0	0

ROUND NUMBER - 77

PROJECTILE MASS (GM) - 5.832

PROJECTILE TYPE - S+W, JSP, .38 SPEC PROJECTILE VELOCITY (MPS) - 411.34

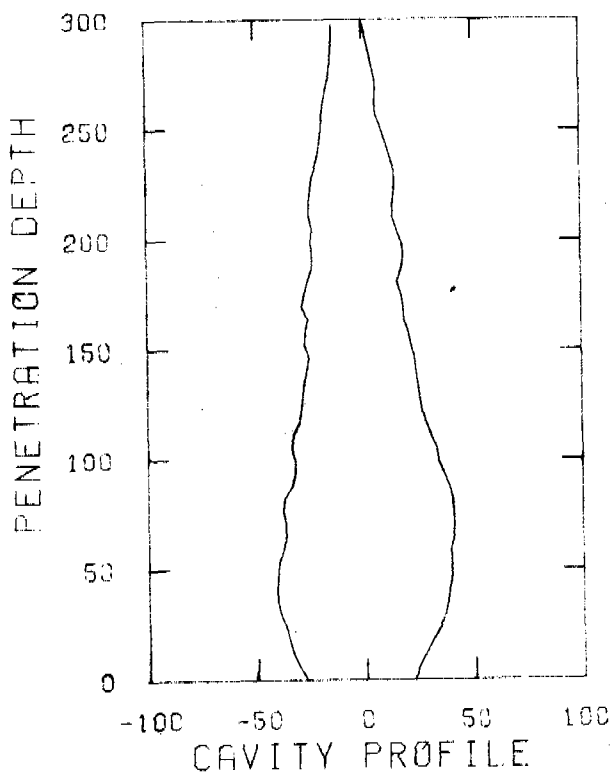
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
20	54	54
52	55	55
90	56	56
124	55	55
159	55	55

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	24
6	27
11	30
17	33
23	35
29	38
35	39
41	39
46	40
52	39
58	38
64	38
70	38
76	39
81	38
87	36
93	34
99	33
105	33
110	31
116	29
122	27
128	26
134	26
140	24
145	24
151	24
157	23
163	21
169	23
175	22
180	20
187	20
192	20
198	20
204	19
210	19
215	19
221	19
227	18
233	17
239	16
245	14
251	13
257	12
263	11
268	11
274	10



ROUND NUMBER 77 CONTINUED

I	280	9
I	286	8
I	291	7
I	297	7
I	303	6
I	309	7
I	315	5
I	319	5
I	319	3

ROUND NUMBER - 103

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -S+W, JSP4 .357 MAG PROJECTILE VELOCITY (MPS) -229.69

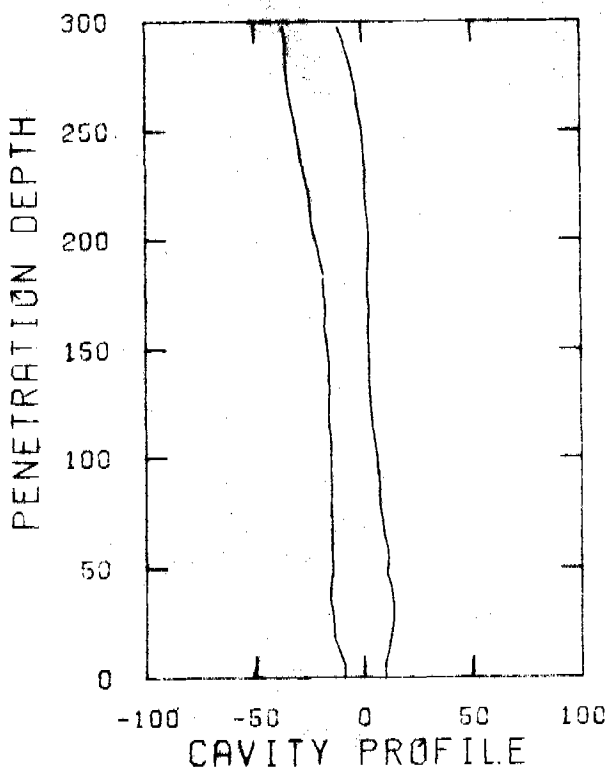
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
6	54	54
27	55	55
53	53	53
80	60	60
109	63	63

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	9
I 5	9
I 11	11
I 18	13
I 23	13
I 29	14
I 35	14
I 41	13
I 47	12
I 53	12
I 59	12
I 65	11
I 71	11
I 77	11
I 83	10
I 89	11
I 95	10
I 101	10
I 107	10
I 113	9
I 118	9
I 125	9
I 130	9
I 137	9
I 142	9
I 148	9
I 154	9
I 160	9
I 166	10
I 172	9
I 178	10
I 184	10
I 190	10
I 196	11
I 202	12
I 208	12
I 214	12
I 220	12
I 226	13
I 232	14
I 238	14
I 243	14
I 249	15
I 255	14
I 261	15
I 267	15
I 273	15
I 279	14



ROUND NUMBER 103 CONTINUED

I	285	14
I	291	13
I	297	12
I	303	11
I	309	9
I	315	7
I	321	5
I	323	4
I	324	3

ROUND NUMBER - 112

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -S+W, JSP, .357 MAG PROJECTILE VELOCITY (MPS) -290.56

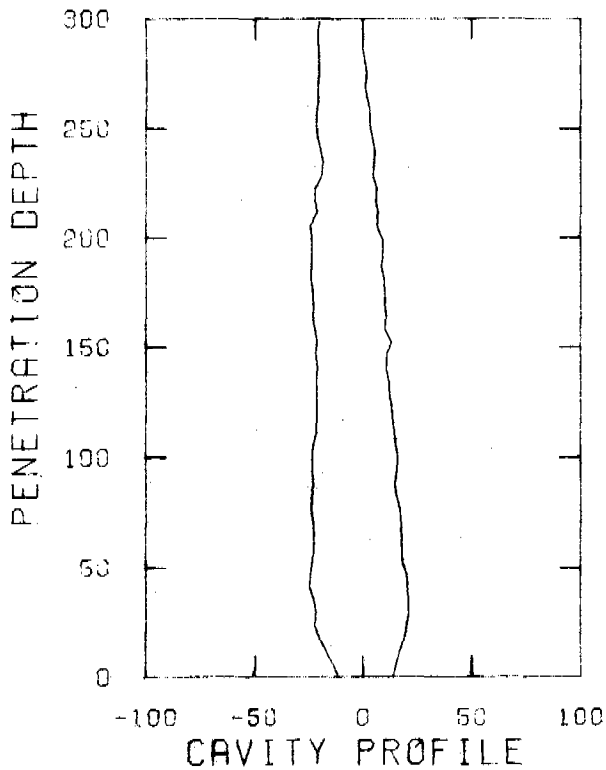
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
8	55	55
34	56	56
67	66	66
98	77	77
133	60	60

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	12
I	5	14
I	11	17
I	17	19
I	23	21
I	29	21
I	35	21
I	40	22
I	46	22
I	52	20
I	58	20
I	64	19
I	70	20
I	76	20
I	81	19
I	87	18
I	93	19
I	99	19
I	105	18
I	111	17
I	116	17
I	123	17
I	128	16
I	134	16
I	140	15
I	146	16
I	151	17
I	158	16
I	163	16
I	169	16
I	175	16
I	181	16
I	187	15
I	193	16
I	199	16
I	204	15
I	210	13
I	216	13
I	222	14
I	228	11
I	234	11
I	239	12
I	245	12
I	251	12
I	257	12
I	263	11
I	269	10
I	275	10



ROUND NUMBER 112 CONTINUED

I	280	10
I	286	9
I	292	10
I	298	9
I	304	8
I	310	8
I	315	7
I	321	7
I	C	0

ROUND NUMBER - 81

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE--S&W. JSP, .38 SPEC PROJECTILE VELOCITY (MPS) -317.17

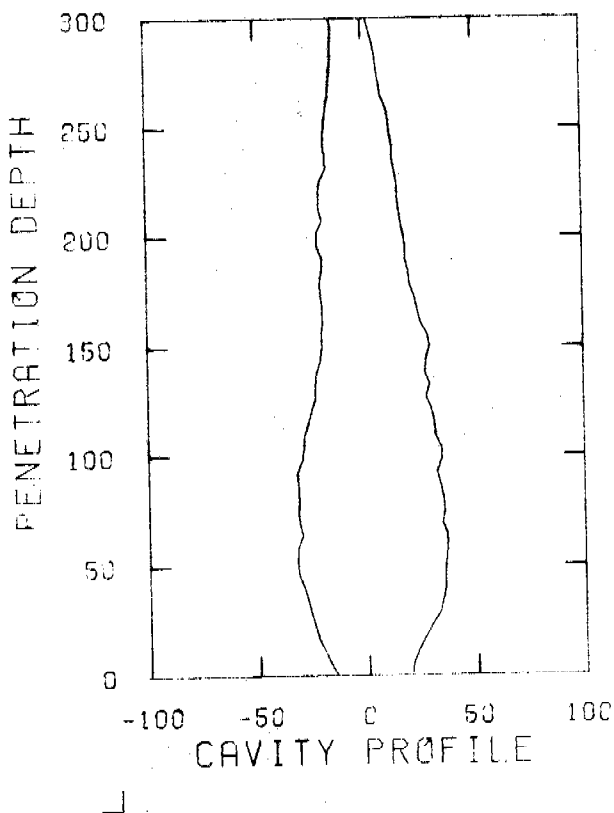
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
8	57	57
35	87	87
70	84	84
102	81	81
135	76	76

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	16
5	18
11	21
17	24
23	26
28	29
34	31
40	32
46	33
52	34
57	34
63	33
69	32
74	33
80	33
86	32
92	32
98	32
103	31
109	30
115	28
121	27
126	25
132	26
138	24
144	24
149	24
155	24
161	22
167	21
173	21
178	20
184	19
190	18
196	20
202	19
207	17
213	18
219	18
225	17
231	15
236	15
242	15
247	14
253	14
259	13
264	11
270	11



ROUND NUMBER 81 CONTINUED

1	276	10
1	282	9
1	288	9
1	293	8
1	299	8
1	305	7
1	311	7
1	317	5
1	0	0

ROUND NUMBER - 111

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -S+H, JSP, .357 MAG PROJECTILE VELOCITY (MPS) -317.50

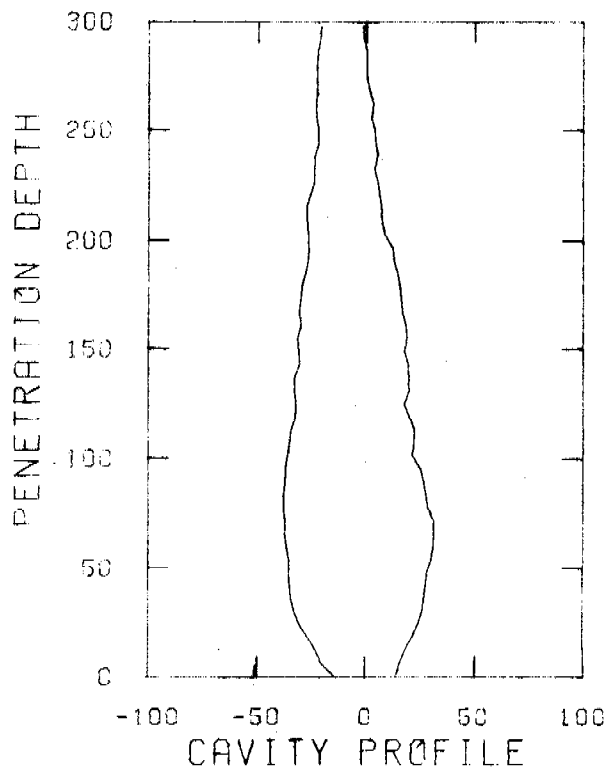
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
12	54	54
39	59	59
73	62	62
104	68	68
137	62	62

I CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	14
I 6	17
I 11	20
I 17	23
I 23	27
I 30	29
I 35	30
I 41	31
I 47	32
I 53	33
I 59	34
I 65	34
I 71	34
I 77	33
I 83	32
I 89	32
I 95	31
I 101	28
I 107	28
I 113	28
I 119	26
I 125	24
I 131	26
I 136	26
I 142	25
I 148	24
I 154	25
I 160	24
I 166	23
I 172	22
I 178	22
I 184	21
I 190	19
I 196	19
I 202	17
I 208	17
I 214	17
I 220	15
I 226	14
I 232	13
I 238	14
I 244	12
I 249	12
I 255	12
I 261	13
I 267	11
I 273	11
I 279	11



ROUND NUMBER 111 CONTINUED

I	285	10
I	292	9
I	297	9
I	303	8
I	309	8
I	315	8
I	321	9
I	327	8
I	331	8

ROUND NUMBER - 110

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -S+W, JSP, .357 MAG PROJECTILE VELOCITY (MPS) -328.09

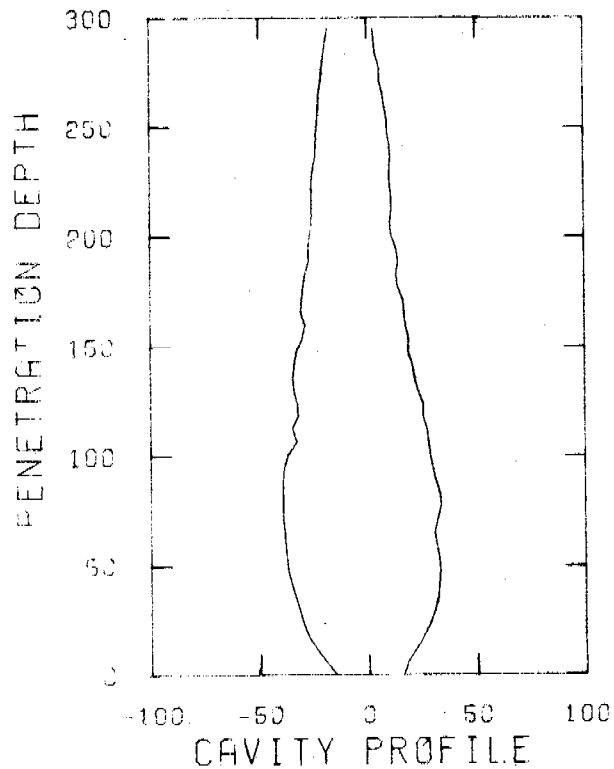
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
11	63	63
39	74	74
74	80	80
105	88	89
138	76	78

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	15
I 6	18
I 11	22
I 17	26
I 23	29
I 29	31
I 35	32
I 41	34
I 47	35
I 53	35
I 59	34
I 64	34
I 71	35
I 76	36
I 82	36
I 88	35
I 94	34
I 100	32
I 106	30
I 112	30
I 118	28
I 123	28
I 129	28
I 135	27
I 141	27
I 147	25
I 153	24
I 159	23
I 165	23
I 171	23
I 177	21
I 182	20
I 189	20
I 195	19
I 200	18
I 206	17
I 212	18
I 218	18
I 224	17
I 230	17
I 236	17
I 241	16
I 247	16
I 253	15
I 259	15
I 265	14
I 271	13
I 277	12



ROUND NUMBER 110 CONTINUED

I	283	11
I	288	10
I	294	10
I	300	9
I	306	8
I	312	8
I	317	8
I	0	0
I	0	0

ROUND NUMBER - 105

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -S+W, JSP, .357 MAG PROJECTILE VELOCITY (MPS) -371.71

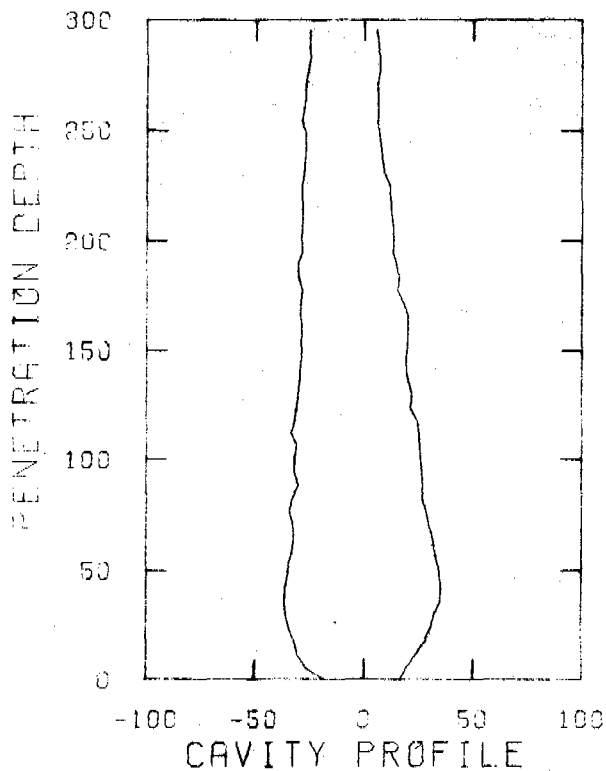
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	56	56
45	56	56
85	53	53
123	56	56
164	57	57

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	17
I	5	22
I	11	27
I	17	30
I	23	32
I	29	34
I	35	35
I	41	35
I	47	34
I	53	34
I	59	32
I	64	31
I	70	31
I	76	31
I	82	29
I	88	28
I	94	29
I	100	28
I	106	28
I	112	29
I	118	27
I	124	25
I	130	25
I	135	24
I	141	24
I	147	23
I	153	24
I	159	24
I	165	24
I	171	23
I	177	21
I	183	22
I	189	22
I	195	20
I	201	20
I	206	20
I	212	20
I	218	20
I	224	20
I	230	18
I	236	17
I	242	16
I	248	16
I	254	17
I	260	16
I	266	16
I	271	16
I	277	16



ROUND NUMBER 105 CONTINUED

I	283	15
I	289	15
I	295	15
I	301	14
I	307	13
I	313	13
I	319	13
I	324	13
I	0	0

ROUND NUMBER - 86

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -S+W, JSP, .357 MAG PROJECTILE VELOCITY (MPS) -475.51

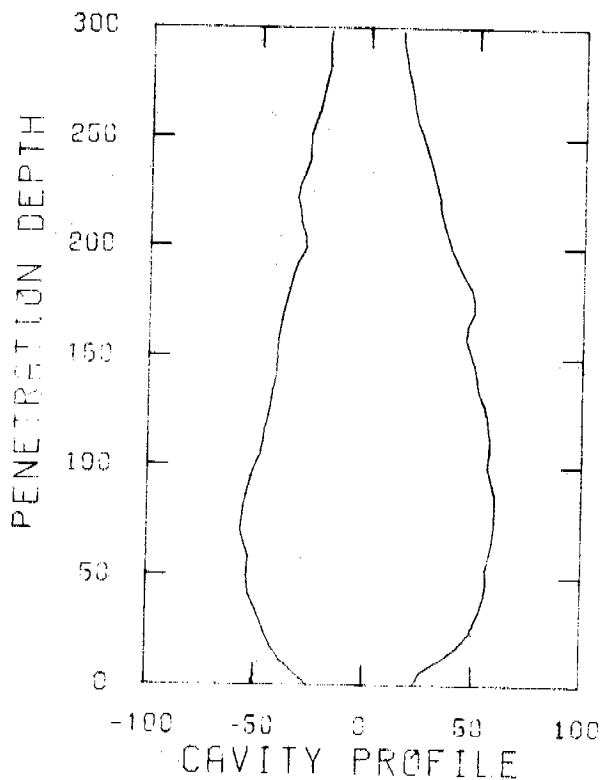
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
17	90	90
54	99	99
100	107	107
139	108	108
177	114	115

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	24
5	29
11	36
17	42
23	46
29	49
35	52
41	54
47	55
52	55
58	55
64	57
70	58
76	58
81	58
87	57
93	55
99	53
105	52
111	52
117	51
122	50
128	48
134	47
140	46
146	45
152	44
157	43
163	42
169	43
175	43
181	41
187	39
193	36
199	33
204	32
210	32
216	32
222	32
228	31
234	29
239	27
245	26
251	25
257	23
263	21
268	20
274	19



ROUND NUMBER 86 CONTINUED

I	280	17
I	286	17
I	292	16
I	298	16
I	303	13
I	310	11
I	315	9
I	321	9
I	324	8

ROUND NUMBER - 80

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -S+W, LRN, .38 SPEC PROJECTILE VELOCITY (MPS) -264.58

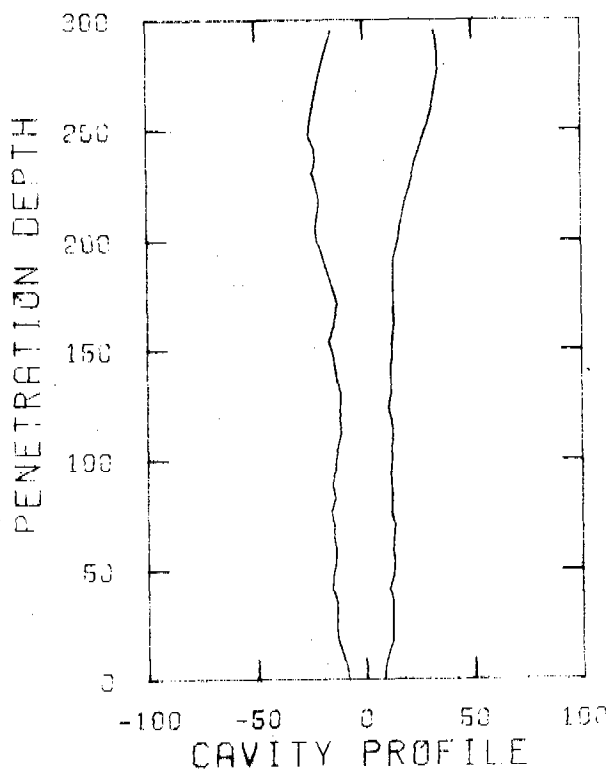
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
12	56	56
36	58	58
192	66	66

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	8
5	8
11	10
17	12
23	13
29	12
35	12
41	13
47	13
53	13
58	13
65	13
70	14
76	13
82	13
88	13
94	12
100	12
106	12
112	11
118	11
123	10
129	11
135	12
141	12
147	13
153	14
159	13
165	13
170	12
176	13
183	14
188	15
194	17
200	18
206	19
212	19
218	19
224	21
230	23
235	23
241	24
247	26
253	27
259	27
265	27
271	27
277	27



ROUND NUMBER 80 CONTINUED

I	283	26
I	289	25
I	295	23
I	300	21
I	306	19
I	312	16
I	318	14
I	323	11
I	0	0

ROUND NUMBER - 79

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -S+W, SWC, .38 SPEC PROJECTILE VELOCITY (MPS) -266.67

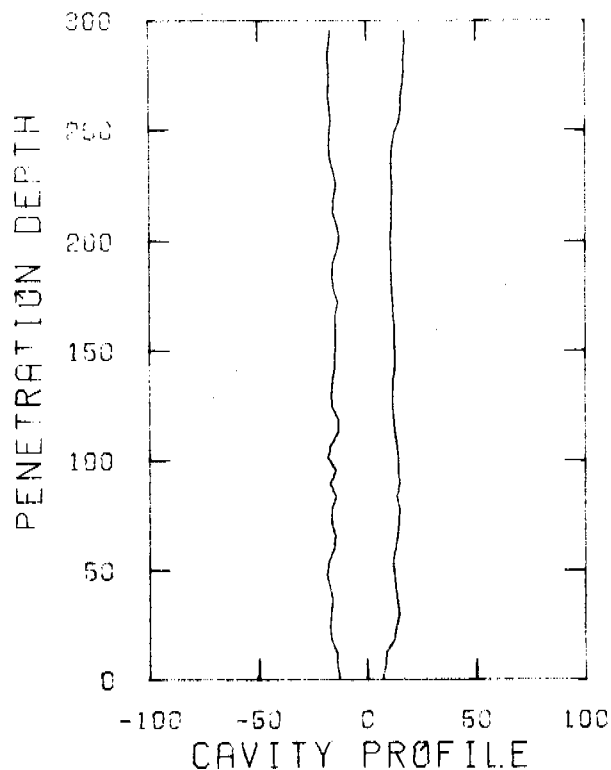
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
14	53	53
38	57	57
69	62	62
100	71	72
134	61	61

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	9
I	6	11
I	12	11
I	18	14
I	24	15
I	29	15
I	36	14
I	41	15
I	47	15
I	53	14
I	59	14
I	65	14
I	71	15
I	77	15
I	83	14
I	89	16
I	95	14
I	101	16
I	106	15
I	112	13
I	118	12
I	124	13
I	130	14
I	136	13
I	142	13
I	148	13
I	153	13
I	159	13
I	165	13
I	171	12
I	177	13
I	183	13
I	189	13
I	195	12
I	201	11
I	207	12
I	213	13
I	218	13
I	224	12
I	231	13
I	236	14
I	242	14
I	248	15
I	254	15
I	260	16
I	266	17
I	272	17
I	277	17



ROUND NUMBER 79 CONTINUED

1	283	17
1	289	17
1	295	17
1	301	16
1	307	16
1	313	16

ROUND NUMBER - 78

PROJECTILE MASS (GM) - 9.590

PROJECTILE TYPE - S+M, WC, .38 SPEC PROJECTILE VELOCITY (MPS) - 249.84

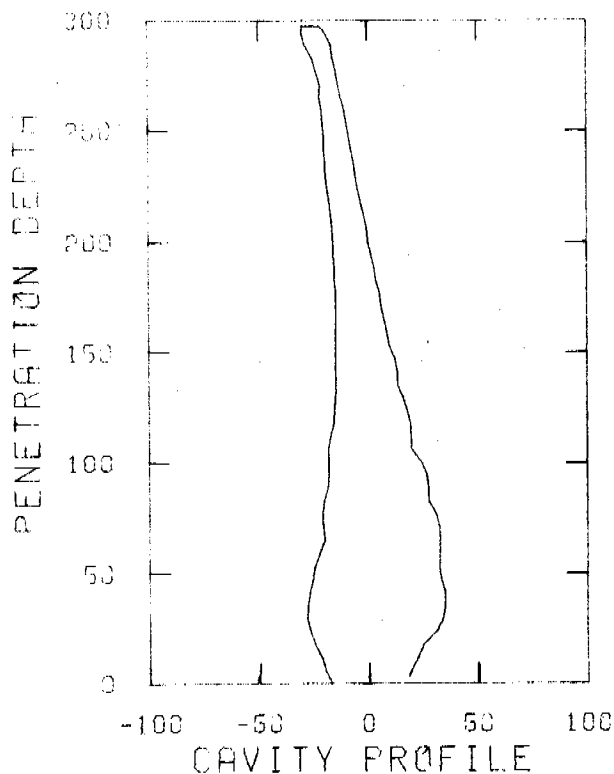
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	89	89
33	97	97
58	96	96
81	94	96
104	98	99

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	17
5	19
11	21
17	24
23	28
29	31
35	31
41	31
47	29
52	28
58	27
64	26
70	26
76	25
82	23
88	23
94	22
100	21
105	18
111	18
117	17
123	16
129	15
135	13
141	13
147	13
153	12
158	11
164	10
170	10
176	9
182	9
188	8
194	8
199	7
206	7
211	7
217	7
223	6
229	6
235	6
241	6
247	5
253	5
258	5
265	4
270	4
276	4



ROUND NUMBER 78 CONTINUED

1	282	4
1	288	5
1	294	5
1	296	4
1	0	0
1	0	0

ROUNDNUMBER -- 495

PROJECTILE MASS (GM) -- 6.400

PROJECTILE TYPE --SPEER,JHP,9MM

PROJECTILE VELOCITY (MPS) --267.31

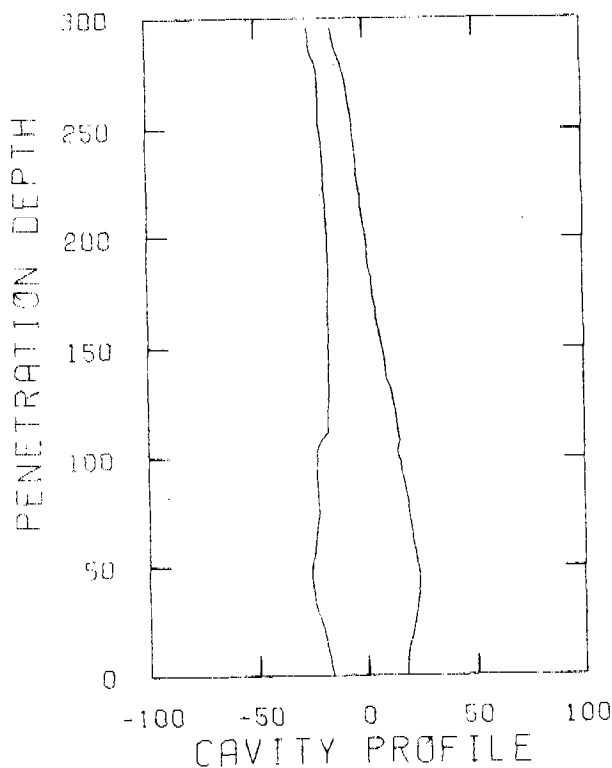
PROJECTILE DIAMETER (CM) -- 0.966

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	55	56
15	53	53
41	58	58
66	59	63
93	52	58
130	62	63
147	61	61

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	17
4	17
9	18
13	18
18	20
23	21
28	22
32	23
37	24
41	24
46	24
51	24
56	23
60	22
65	21
70	21
74	20
79	20
84	20
88	20
93	19
98	18
103	18
107	18
112	15
117	15
121	15
126	14
131	14
135	13
141	12
145	12
150	12
154	11
159	11
164	10
169	10
173	10
178	9
183	9
187	9
192	8
197	8
202	8
206	8
211	8
216	7
220	8



ROUND NUMBER 495 CONTINUED

I	225	7
I	229	7
I	234	7
I	239	7
I	244	7
I	248	7
I	253	7
I	258	7
I	263	6
I	267	6
I	272	6
I	277	5
I	281	5
I	286	5
I	291	5
I	295	5
I	300	4
I		

ROUND NUMBER -- 494

PROJECTILE ASS (GM) -- 6.480

PROJECTILE TYPE --SPEER,JHP,9MM

PROJECTILE VELOCITY (MPS) --297.48

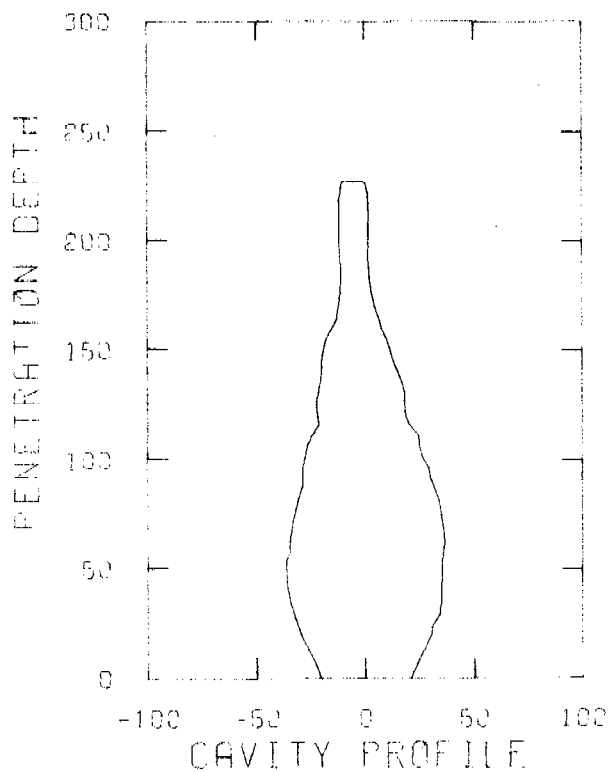
PROJECTILE DIAMETER (CM) -- 0.966

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-5	53	53
18	80	80
43	84	84
68	85	86
91	92	92
121	87	87
134	68	68

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	20
I	4	22
I	9	24
I	14	27
I	19	29
I	24	31
I	29	33
I	33	34
I	38	35
I	43	35
I	48	35
I	53	35
I	57	35
I	62	35
I	67	34
I	72	34
I	77	33
I	82	32
I	86	30
I	91	29
I	96	28
I	101	26
I	106	25
I	111	24
I	115	20
I	120	20
I	126	20
I	130	19
I	135	18
I	140	17
I	145	16
I	150	15
I	154	14
I	159	11
I	164	9
I	169	8
I	174	7
I	179	6
I	183	6
I	188	6
I	193	6
I	197	6
I	203	6
I	207	6
I	212	6
I	217	6
I	222	6
I	227	5



ROUND NUMBER -- 493

PROJECTILE MASS (GM) -- 6.480

PROJECTILE TYPE --SPEER,JHP,9MM

PROJECTILE VELOCITY (MPS) --368.1

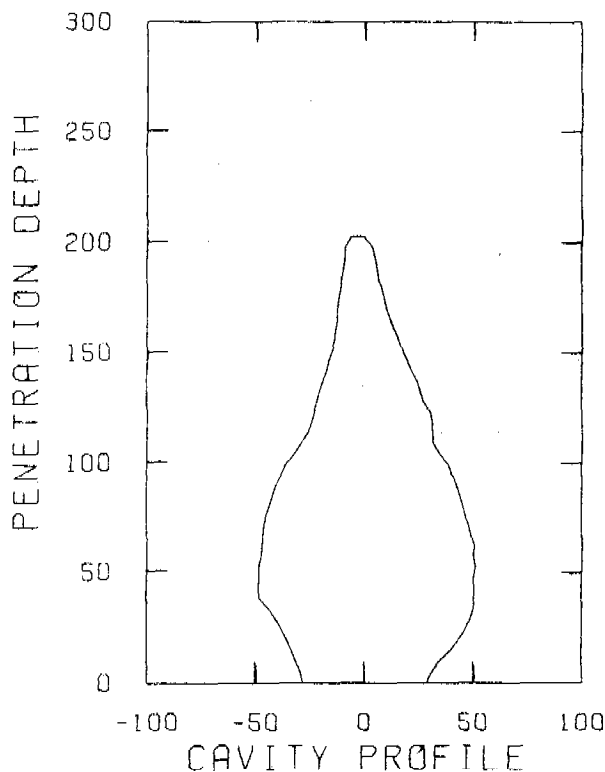
PROJECTILE DIAMETER (CM) -- 8.966

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
3	73	73
21	175	175
49	215	215
75	172	177
97	157	161
125	157	157
135	134	134

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	28
4	30
9	32
14	36
18	39
23	42
28	44
32	46
37	49
42	49
47	49
51	49
56	48
61	48
66	47
70	46
75	45
80	44
84	42
89	41
94	39
99	37
103	33
108	30
113	28
117	27
122	26
127	24
132	23
136	21
141	19
146	18
151	16
155	14
160	13
164	12
169	11
174	10
179	9
183	8
188	7
193	6
197	6
202	2



ROUND NUMBER -- 492

PROJECTILE MASS (GM) -- 6.480

PROJECTILE TYPE --SPEER,JHP,9MM

PROJECTILE VELOCITY (MPS) --380.39

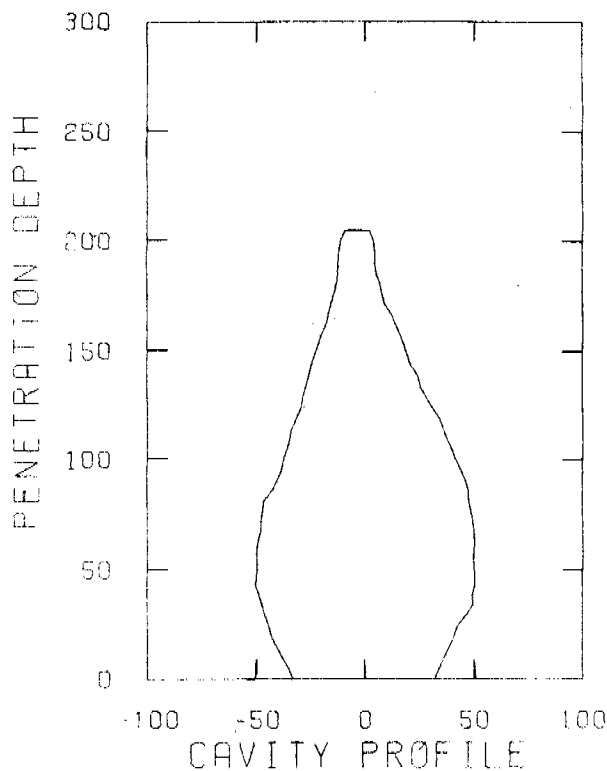
PROJECTILE DIAMETER (CM) -- 8.966

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	87	88
23	169	170
52	181	181
77	174	174
101	145	149
127	160	168
139	160	161

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	32
5	34
9	36
14	39
19	41
24	43
28	46
33	48
38	49
43	50
47	50
52	49
57	49
62	49
67	48
71	48
76	47
81	46
86	44
90	42
95	40
100	39
105	37
109	36
114	34
119	32
124	30
129	28
133	26
138	24
143	22
148	21
152	19
157	18
162	15
166	14
171	12
176	10
181	9
186	8
190	8
195	8
200	7
205	5



ROUND NUMBER -- 490

PROJECTILE MASS (GM) -- 6.480

PROJECTILE TYPE --SPEER,JHP,9MM

PROJECTILE VELOCITY (MPS) --439.2

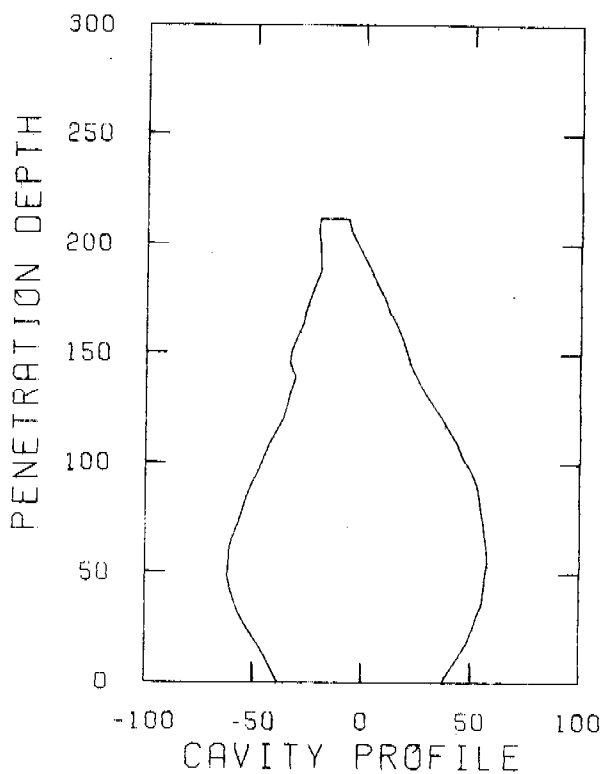
PROJECTILE DIAMETER (CM) -- 0.966

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-4	73	73
26	169	169
57	112	112
84	118	124
107	96	96
135	163	175
145	89	96

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	37
I	6	41
I	12	44
I	18	48
I	24	51
I	30	54
I	36	57
I	42	58
I	48	59
I	54	59
I	60	59
I	66	57
I	72	56
I	78	54
I	84	53
I	90	51
I	96	48
I	103	45
I	109	43
I	115	39
I	121	36
I	127	33
I	133	30
I	139	27
I	145	27
I	151	26
I	157	24
I	163	21
I	169	19
I	175	16
I	181	14
I	187	11
I	193	9
I	199	8
I	205	7
I	211	6



ROUND NUMBER -- 491

PROJECTILE MASS (GM) -- 6.480

PROJECTILE TYPE --SPEER,JHP,9MM

PROJECTILE VELOCITY (MPS) --452.63

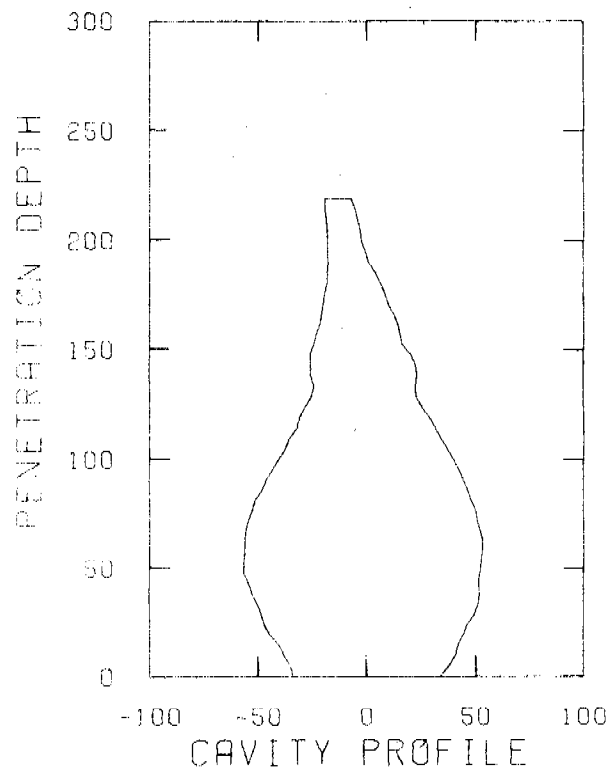
PROJECTILE DIAMETER (CM) -- 0.966

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	63	63
27	233	234
57	267	267
84	169	169
108	145	145
137	175	187
148	143	153

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	33
I	4	36
I	9	39
I	14	41
I	19	44
I	23	46
I	28	48
I	33	50
I	38	52
I	42	52
I	47	54
I	52	54
I	57	54
I	62	54
I	66	54
I	71	52
I	76	51
I	81	49
I	85	47
I	90	45
I	95	42
I	100	40
I	104	37
I	109	34
I	114	31
I	119	29
I	123	27
I	128	24
I	133	23
I	138	24
I	143	24
I	147	23
I	152	20
I	157	19
I	161	17
I	166	16
I	171	14
I	176	13
I	180	11
I	185	10
I	190	8
I	195	8
I	200	7
I	204	7
I	209	7
I	214	6
I	219	5



ROUND NUMBER -- 496

PROJECTILE ASS (GR) -- 8-300

PROJECTILE TYPE --SPEER,JSP,9MM

PROJECTILE VELOCITY (MPS) --266.7

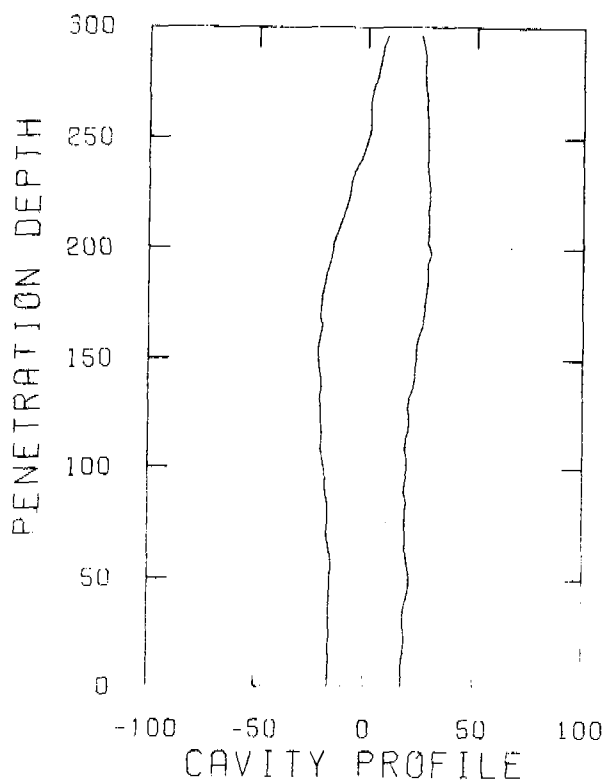
PROJECTILE DIAMETER (CM) -- 0.966

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
9	49	50
15	53	54
43	54	54
73	55	56
106	75	75
149	59	59
168	63	66

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	16
I	4	16
I	9	16
I	14	17
I	18	17
I	23	17
I	28	17
I	32	17
I	37	17
I	42	18
I	47	18
I	51	18
I	56	17
I	61	17
I	65	17
I	70	18
I	75	17
I	80	17
I	84	18
I	89	18
I	94	18
I	98	18
I	103	19
I	108	19
I	113	19
I	117	20
I	122	20
I	127	20
I	131	20
I	136	21
I	141	21
I	145	22
I	150	22
I	155	22
I	159	22
I	164	23
I	169	23
I	173	23
I	178	23
I	183	23
I	188	23
I	192	22
I	197	22
I	202	21
I	206	21
I	211	20
I	216	19
I	221	18



ROUND NUMBR 496 CONTINUED

I	225	18
I	230	17
I	235	16
I	239	15
I	244	14
I	249	13
I	254	12
I	258	12
I	263	12
I	268	12
I	272	11
I	277	10
I	282	10
I	286	9
I	291	9
I	296	7
I	301	6
I	305	6
I	310	5
I	315	3
I		

ROUND NUMBER -- 489

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --SPEER,JSP,9MM

PROJECTILE VELOCITY (MPS) --325.8

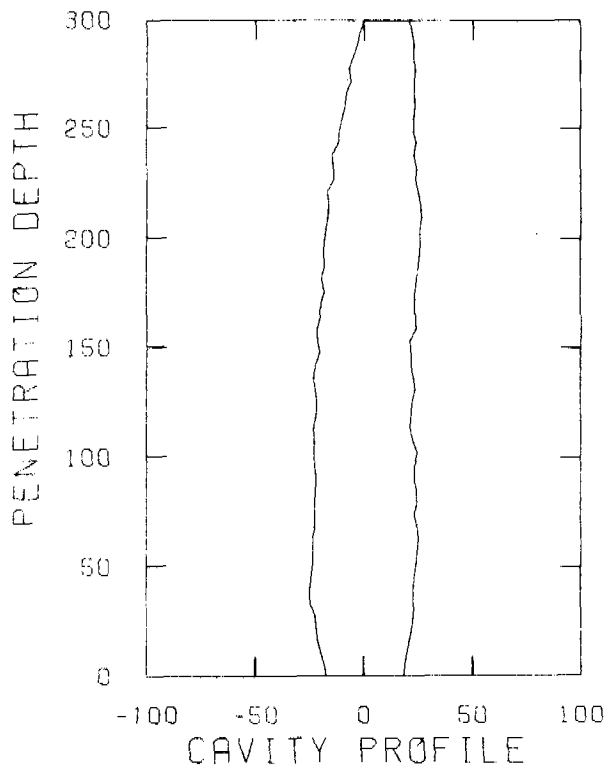
PROJECTILE DIAMETER (CM) -- 8.966

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	52	58
22	52	52
56	57	58
91	53	53
130	50	51
181	111	134
205	115	118

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	17
5	18
11	19
16	21
22	22
28	22
34	23
39	23
45	23
51	23
56	24
62	24
67	23
73	22
79	23
84	23
90	22
96	23
102	23
107	22
113	22
118	21
124	21
130	23
135	23
141	21
147	21
152	21
158	22
163	21
169	21
175	20
181	21
186	21
192	22
197	22
203	21
209	21
215	21
220	20
226	18
231	19
237	18
243	17
248	16
254	16
259	16
265	15



ROUND NUMBER 489 CONTINUED

1	271	14
1	277	15
1	282	13
1	288	13
1	293	12
1	299	10

ROUND NUMBER -- 488

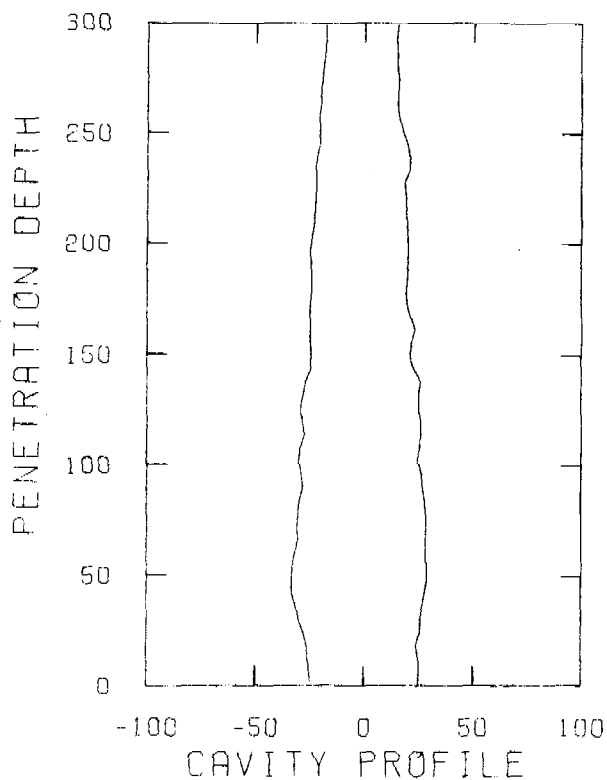
PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --SPEER,JSP,9MM

PROJECTILE VELOCITY (MPS) --343.5

PROJECTILE DIAMETER (CM) -- 8.966

PROJECTILE DEFORMATION			I CAVITY MEASUREMENTS	
PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)	I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
-13	69	69	I 0	24
12	53	57	I 6	25
48	55	55	I 11	25
86	56	57	I 18	25
125	56	56	I 24	26
180	88	89	I 30	28
206	129	146	I 36	29
			I 42	30
			I 48	31
			I 54	30
			I 60	30
			I 66	29
			I 71	29
			I 77	29
			I 83	28
			I 89	27
			I 95	27
			I 101	27
			I 107	27
			I 113	26
			I 119	27
			I 125	27
			I 131	26
			I 138	26
			I 143	23
			I 149	22
			I 155	23
			I 161	24
			I 167	23
			I 173	22
			I 179	21
			I 185	22
			I 191	22
			I 197	22
			I 203	21
			I 209	21
			I 215	20
			I 221	20
			I 227	20
			I 233	21
			I 239	21
			I 245	20
			I 251	18
			I 257	18
			I 263	17
			I 268	17
			I 275	17
			I 281	16



ROUND NUMBER 488 CONTINUED

1	287	16
1	293	16
1	299	16
1	305	15
1	310	14
1	316	13

ROUND NUMBER -- 487

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --SPEER,JSP,9MM

PROJECTILE VELOCITY (MPS) --384.66

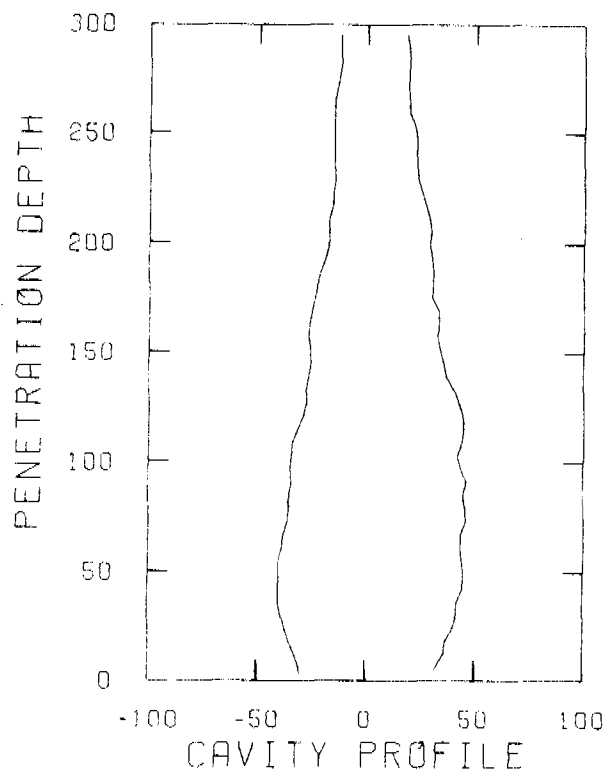
PROJECTILE DIAMETER (CM) -- 0.966

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	66	66
26	68	69
60	78	78
97	93	95
134	81	87
181	121	136
202	111	116

1 CAVITY MEASUREMENTS

1	1	1
PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)	
1	0	29
1	6	31
1	12	34
1	18	36
1	24	38
1	30	40
1	36	41
1	42	42
1	48	42
1	54	42
1	60	41
1	66	40
1	72	40
1	78	40
1	84	39
1	90	40
1	96	39
1	102	38
1	109	39
1	114	38
1	121	36
1	127	34
1	133	33
1	138	31
1	145	30
1	151	29
1	157	29
1	163	29
1	169	28
1	175	26
1	181	26
1	187	25
1	193	24
1	199	22
1	205	23
1	211	22
1	217	21
1	223	20
1	229	18
1	235	18
1	241	18
1	247	18
1	253	18
1	259	17
1	265	16
1	271	15
1	277	15
1	283	15



ROUND NUMBER 487 CONTINUED

1	289	15
1	295	14
1	302	13
1	308	12
1	314	12
1	320	12

ROUND NUMBER -- 486

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --SPEER,JSP,9MM

PROJECTILE VELOCITY (MPS) --387.40

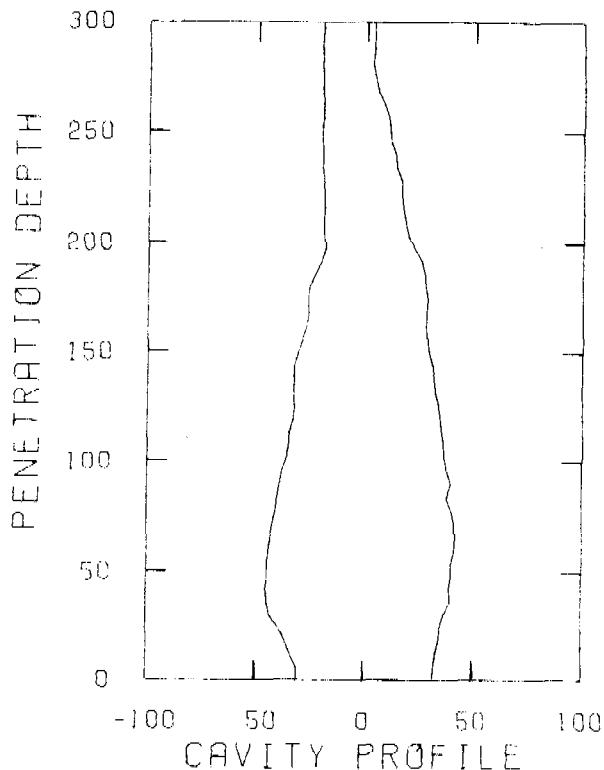
PROJECTILE DIAMETER (CM) -- 0.966

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-2	61	62
28	70	74
63	70	74
98	60	64
133	68	81
182	77	77
203	70	72

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	31
I	6	31
I	12	33
I	18	35
I	24	37
I	30	40
I	36	42
I	42	42
I	48	42
I	54	42
I	60	42
I	66	42
I	72	41
I	78	40
I	83	39
I	90	39
I	96	37
I	101	36
I	107	35
I	113	34
I	120	33
I	126	33
I	132	32
I	138	32
I	143	31
I	150	29
I	155	28
I	162	27
I	167	26
I	173	27
I	179	26
I	185	24
I	192	22
I	197	20
I	204	19
I	209	18
I	215	17
I	221	17
I	227	17
I	233	16
I	239	16
I	245	15
I	251	15
I	257	14
I	263	13
I	269	12
I	275	11
I	281	11



ROUND NUMBER 486 CONTINUED

I	287	11
I	293	11
I	299	11
I	305	10
I	311	9
I	317	8

ROUND NUMBER -- 485

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --SPEER,JSP,9MM

PROJECTILE VELOCITY (MPS) --412.39

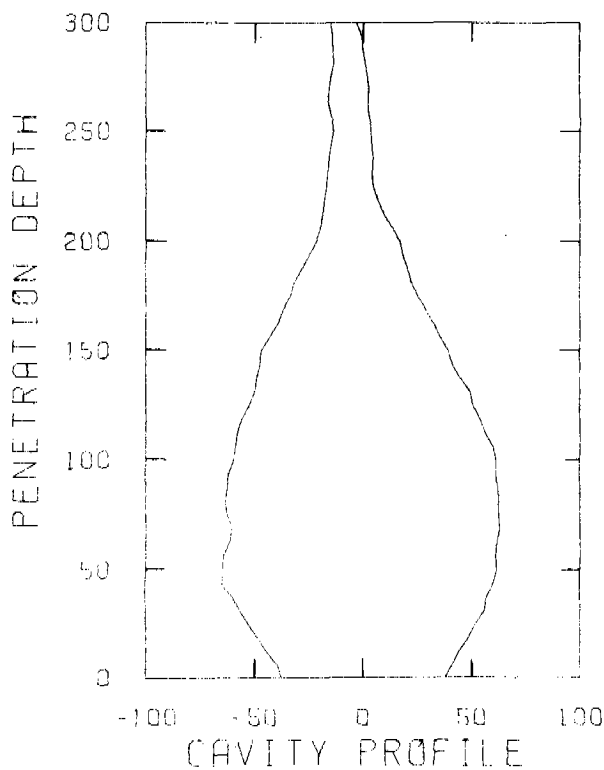
PROJECTILE DIAMETER (CM) -- 8.966

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	82	82
29	128	128
60	131	135
91	111	112
119	113	121
154	127	128
168	116	118

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	37
I	6	40
I	12	44
I	18	48
I	24	52
I	31	56
I	37	58
I	43	62
I	49	63
I	56	62
I	62	61
I	68	61
I	74	62
I	81	63
I	87	62
I	93	61
I	99	60
I	106	59
I	112	57
I	118	54
I	125	51
I	130	49
I	137	46
I	143	44
I	149	42
I	156	38
I	162	35
I	168	32
I	174	29
I	181	26
I	187	24
I	193	21
I	199	19
I	206	16
I	212	13
I	218	12
I	224	10
I	231	9
I	237	10
I	243	9
I	249	8
I	255	8
I	262	8
I	268	9
I	275	8
I	281	7
I	287	6
I	293	6



ROUND NUMBER 485 CONTINUED

I	299	5
I	305	5
I	0	0

ROUND NUMBER -- 497

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --SPEER,RN,9MM

PROJECTILE VELOCITY (MPS) --417.58

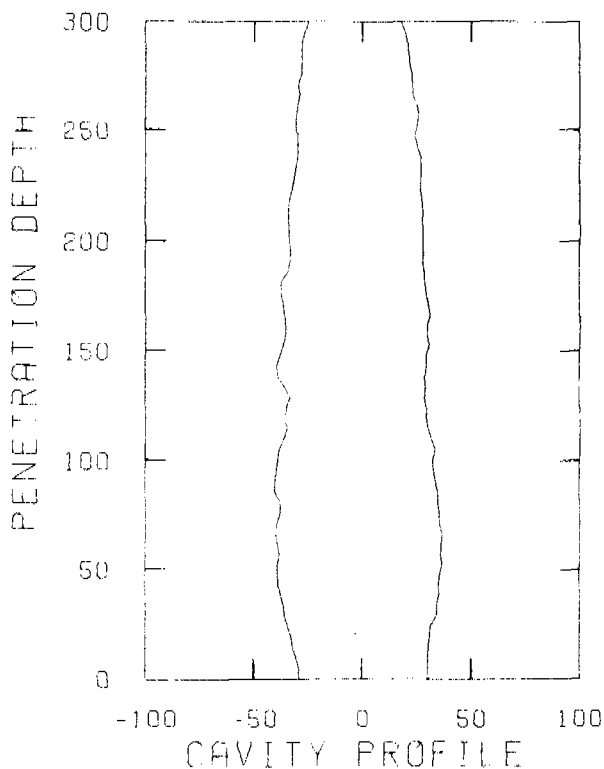
PROJECTILE DIAMETER (CM) -- 8.966

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
1	59	59
36	66	66
77	74	74
119	124	125
160	145	146
215	104	106
237	105	106

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	29
I	5	29
I	9	30
I	14	31
I	18	31
I	23	32
I	28	35
I	33	35
I	38	36
I	43	37
I	47	37
I	52	37
I	57	37
I	62	37
I	66	38
I	71	37
I	76	36
I	81	36
I	85	37
I	90	37
I	95	36
I	100	35
I	104	35
I	109	33
I	114	32
I	119	32
I	123	32
I	128	30
I	133	32
I	138	33
I	142	34
I	147	33
I	151	33
I	157	32
I	161	32
I	166	33
I	171	33
I	176	33
I	180	33
I	185	31
I	190	30
I	195	30
I	199	30
I	204	30
I	209	30
I	214	30
I	218	30
I	223	29



ROUND NUMBER 497 CONTINUED

I	228	28
I	233	28
I	238	28
I	242	27
I	247	26
I	251	27
I	256	27
I	261	27
I	266	25
I	271	26
I	276	25
I	280	24
I	285	24
I	290	24
I	295	23
I	299	21
I	304	21
I	309	20
I	314	19
I	318	18
I		

ROUND NUMBER -- 506

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --SPEER,JHP,357

PROJECTILE VELOCITY (MPS) --238.05

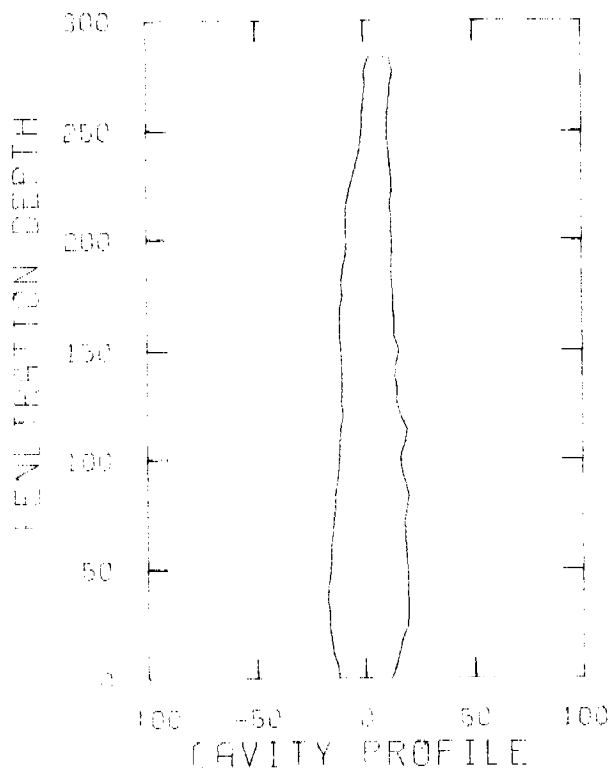
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-11	46	46
3	57	58
31	57	57
56	55	55
82	57	57
117	50	50
134	50	50

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	11
6	12
12	15
17	16
24	17
30	18
36	18
42	18
48	17
54	17
60	17
66	16
72	16
78	16
84	16
90	15
96	14
102	14
108	15
114	15
120	15
126	12
132	12
138	12
144	12
150	13
156	12
162	12
168	12
174	11
180	11
186	11
192	10
198	10
204	10
211	10
216	9
222	9
228	8
234	7
240	6
247	6
252	5
258	5
264	5
270	5
276	6
283	4



ROUND NUMBER -- 392

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --SPEER,JHP,38CAL

PROJECTILE VELOCITY (MPS) --258.78

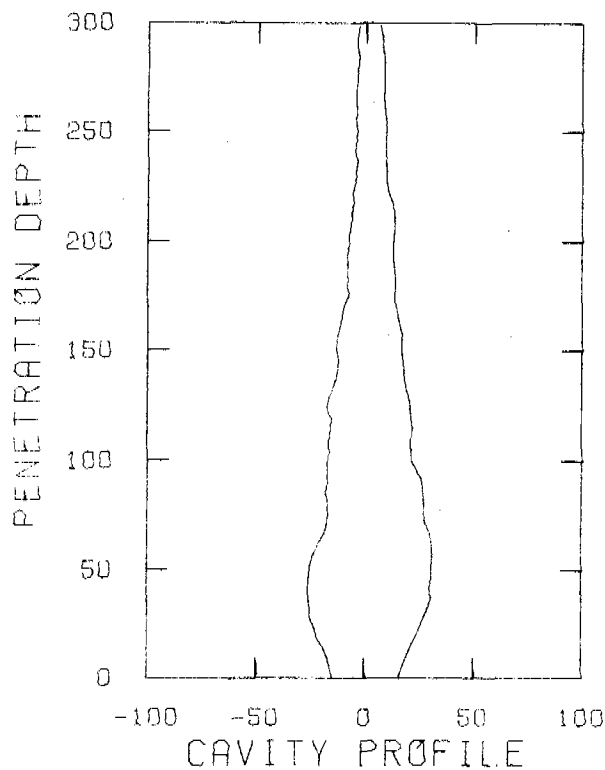
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-10	55	56
8	87	87
32	101	101
59	115	116
85	109	109
120	77	87
137	74	84

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	15
4	16
9	18
14	20
18	22
23	24
28	26
32	27
37	28
42	28
47	28
51	28
56	27
61	26
66	24
71	22
75	22
80	22
85	22
90	21
94	20
99	19
104	18
109	18
113	18
118	18
123	19
127	18
132	16
137	15
141	14
146	14
151	14
156	14
160	13
165	12
170	11
175	10
180	10
184	10
189	10
194	10
199	9
203	10
208	10
213	9
218	8
222	7



ROUND NUMBER 392 CONTINUED

1	227	6
1	232	6
1	236	6
1	241	6
1	246	6
1	250	6
1	256	6
1	260	2
1	61	2
1	270	6
1	274	5
1	279	6
1	284	5
1	288	5
1	293	5
1	298	4
1	302	5
1	308	5
1	312	4
1		

ROUND NUMBER -- 505

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --SPEER,JHP,357

PROJECTILE VELOCITY (MPS) --295.66

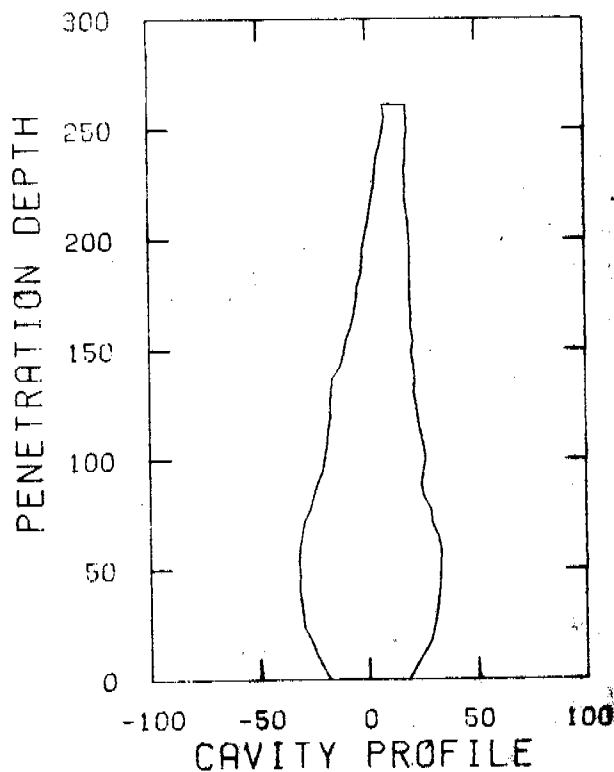
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	57	57
14	101	103
41	106	108
64	130	139
91	128	131
122	88	88
136	79	80

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	I CAVITY RADIUS(MM)
I 0	I 18
I 6	I 21
I 12	I 24
I 17	I 27
I 23	I 29
I 29	I 30
I 35	I 31
I 41	I 32
I 47	I 32
I 53	I 32
I 59	I 32
I 65	I 31
I 71	I 29
I 77	I 27
I 83	I 25
I 89	I 23
I 95	I 23
I 100	I 23
I 107	I 22
I 112	I 21
I 118	I 20
I 124	I 19
I 130	I 18
I 136	I 18
I 142	I 16
I 148	I 15
I 154	I 15
I 160	I 13
I 166	I 13
I 172	I 12
I 178	I 12
I 183	I 11
I 190	I 10
I 196	I 10
I 201	I 10
I 207	I 9
I 213	I 8
I 219	I 7
I 225	I 7
I 231	I 6
I 237	I 6
I 243	I 5
I 249	I 5
I 255	I 5
I 261	I 5



ROUND NUMBER -- 391

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --SPEER,JHP,30CAL

PROJECTILE VELOCITY (MPS) --356.01

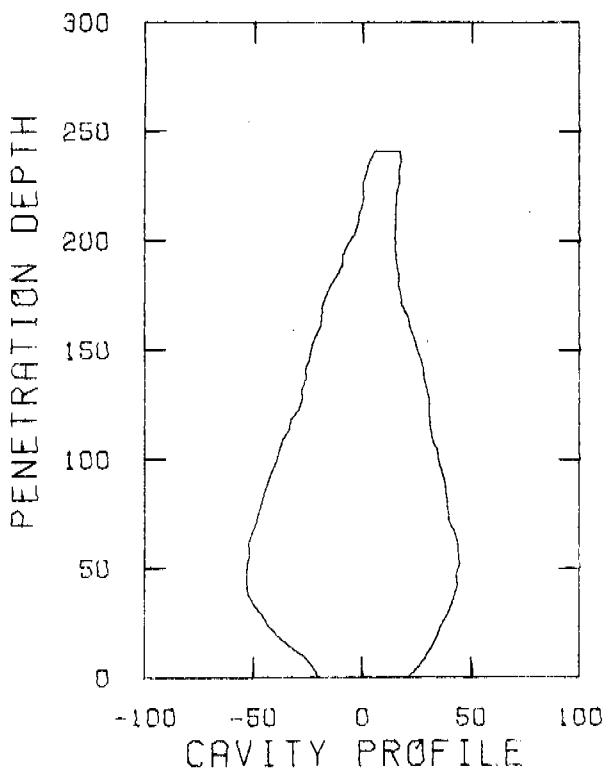
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-9	73	73
16	200	200
44	187	190
72	165	166
97	183	184
127	183	195
139	161	191

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	20
4	24
9	27
14	32
19	36
23	39
28	42
33	45
37	47
42	48
47	48
52	48
56	48
61	48
66	46
70	44
75	43
80	42
84	41
89	40
94	38
99	37
103	36
108	34
113	32
118	31
122	29
127	28
132	28
137	26
141	26
146	25
151	23
155	22
160	20
165	19
170	18
174	16
179	15
184	13
189	12
193	11
198	10
203	8
208	8
212	8
217	7
222	7



ROUND NUMBER 391 CONTINUED

I	226	8
I	231	7
I	235	7
I	240	5
I		

ROUND NUMBER -- 504

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --SPEER,JHP,357MAG

PROJECTILE VELOCITY (MPS) --385.88

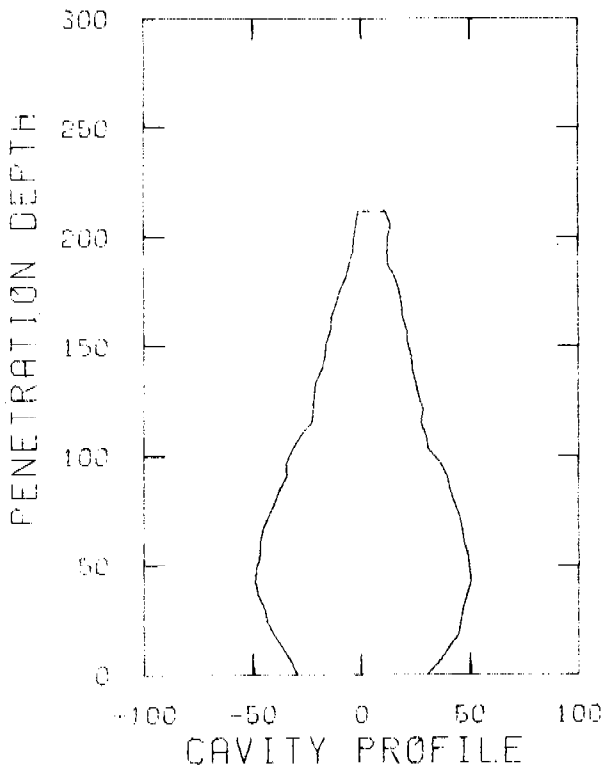
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-5	112	112
21	240	240
50	169	170
77	157	162
101	182	183
131	173	174
143	133	133

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	30
I	6	34
I	12	38
I	18	42
I	24	44
I	30	45
I	36	48
I	42	49
I	48	49
I	54	48
I	60	47
I	67	45
I	72	43
I	78	41
I	84	39
I	91	36
I	96	35
I	103	31
I	109	28
I	115	25
I	121	25
I	127	24
I	133	23
I	139	20
I	145	19
I	151	18
I	157	17
I	163	16
I	169	14
I	175	13
I	181	11
I	187	8
I	193	7
I	199	7
I	205	7
I	211	6



ROUND NUMBER -- 426

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --SPEER,JHP,38CAL

PROJECTILE VELOCITY (MPS) --396.24

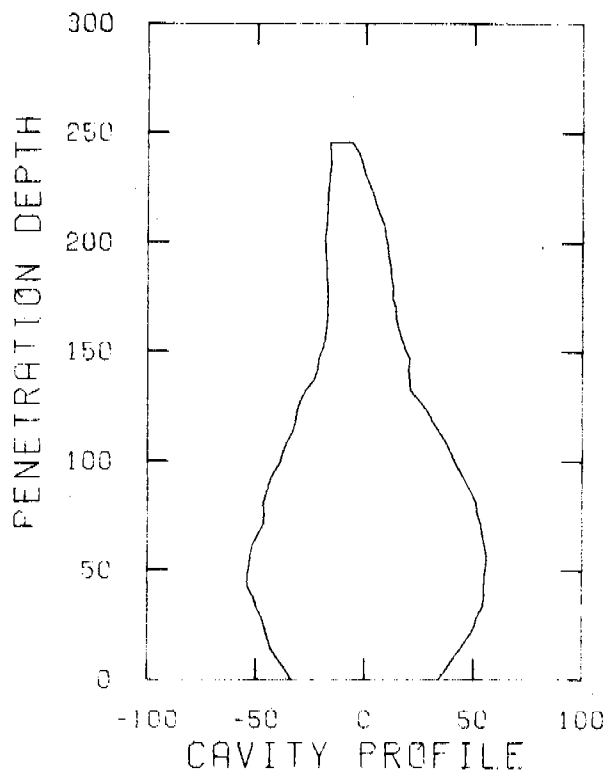
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-4	111	112
22	263	254
51	111	113
80	115	121
106	82	90
138	123	123
153	117	118

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	33
I	4	37
I	9	40
I	14	43
I	19	46
I	23	48
I	28	49
I	33	51
I	38	53
I	42	54
I	47	54
I	52	54
I	56	54
I	61	53
I	66	51
I	71	50
I	75	49
I	80	48
I	85	47
I	89	45
I	94	43
I	99	40
I	104	38
I	108	36
I	113	33
I	118	31
I	123	30
I	127	27
I	132	24
I	137	22
I	141	20
I	146	20
I	151	18
I	153	17
I	160	16
I	165	15
I	170	15
I	174	14
I	179	14
I	184	14
I	189	14
I	193	14
I	198	14
I	203	13
I	208	13
I	212	12
I	217	11
I	222	10



ROUND NUMBER 426 CONTINUED

I	226	9
I	231	8
I	236	7
I	240	6
I	245	5
I		

ROUND NUMBER -- 503

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --SPEER,JHP,357MAG

PROJECTILE VELOCITY (MPS) --426.42

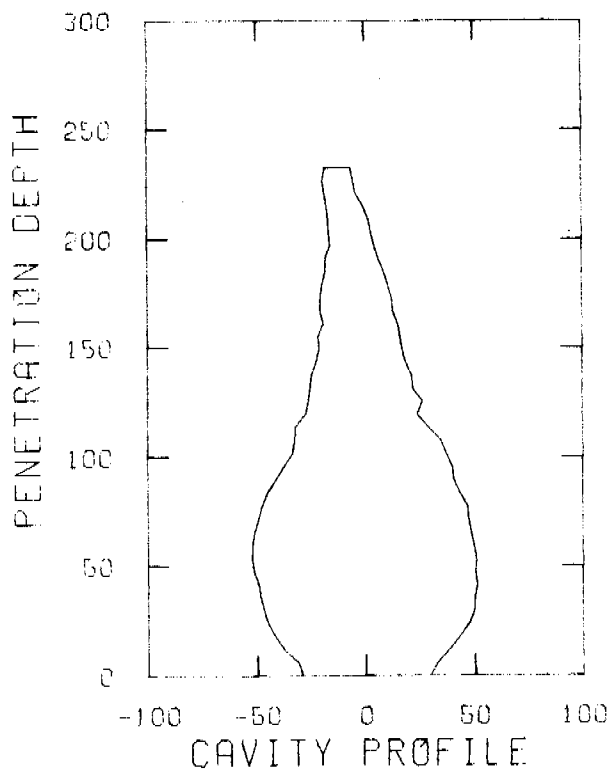
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-2	79	79
27	237	237
58	158	189
86	136	155
115	136	138
145	177	177
157	165	166

I CAVITY MEASUREMENTS

I	I	I
I	PENETRATION	CAVITY
I	DISTANCE (MM)	RADIUS(MM)
I	0	29
I	6	32
I	11	37
I	18	42
I	23	46
I	30	48
I	35	49
I	41	50
I	47	51
I	53	51
I	60	51
I	65	49
I	71	48
I	77	47
I	83	44
I	89	40
I	95	38
I	101	35
I	107	33
I	113	30
I	119	25
I	125	26
I	131	23
I	137	23
I	143	20
I	149	18
I	155	18
I	161	17
I	167	15
I	172	16
I	179	15
I	185	13
I	191	12
I	197	10
I	202	9
I	208	9
I	214	8
I	220	7
I	226	6
I	232	5
I		



ROUND NUMBER -- 390

PROJECTILE MASS (GR) -- 7.128

PROJECTILE TYPE --SPEER,JHP,38CAL

PROJECTILE VELOCITY (MPS) --429.77

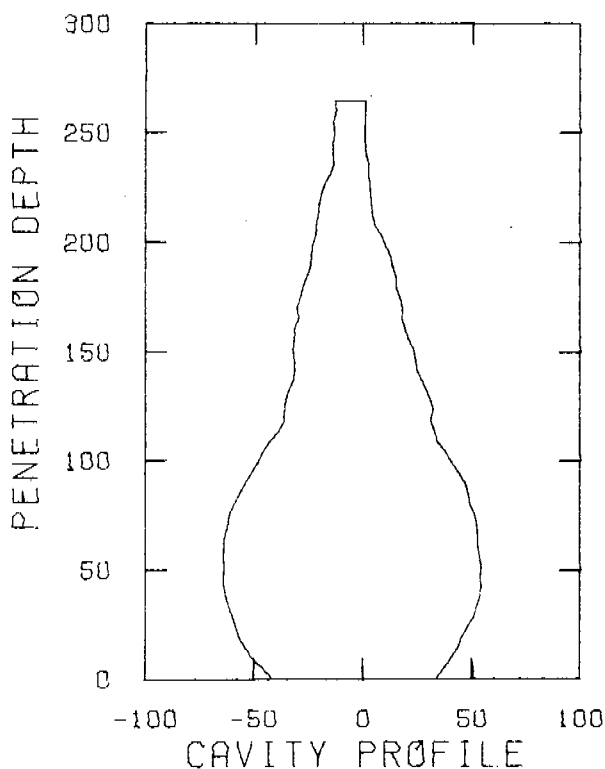
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-2	102	102
25	106	106
58	122	122
89	122	122
118	132	135
152	132	132
167	123	123

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	37
I	4	41
I	9	45
I	14	49
I	19	51
I	23	53
I	28	55
I	33	57
I	37	58
I	42	59
I	47	59
I	52	59
I	56	59
I	61	58
I	66	57
I	71	57
I	75	56
I	80	54
I	85	52
I	89	50
I	94	47
I	99	44
I	104	41
I	108	38
I	113	35
I	118	33
I	127	33
I	132	31
I	137	29
I	141	27
I	146	27
I	151	27
I	155	26
I	160	25
I	165	23
I	169	23
I	175	22
I	179	21
I	184	20
I	188	18
I	193	17
I	198	16
I	203	14
I	207	13
I	212	12
I	217	11
I	222	10



ROUND NUMBER 390 CONTINUED

I	226	10
I	231	8
I	236	7
I	240	7
I	245	7
I	250	6
I	255	6
I	259	6
I	264	6

ROUND NUMBER -- 425

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --SPEER,JHP,38CAL

PROJECTILE VELOCITY (MPS) --440.44

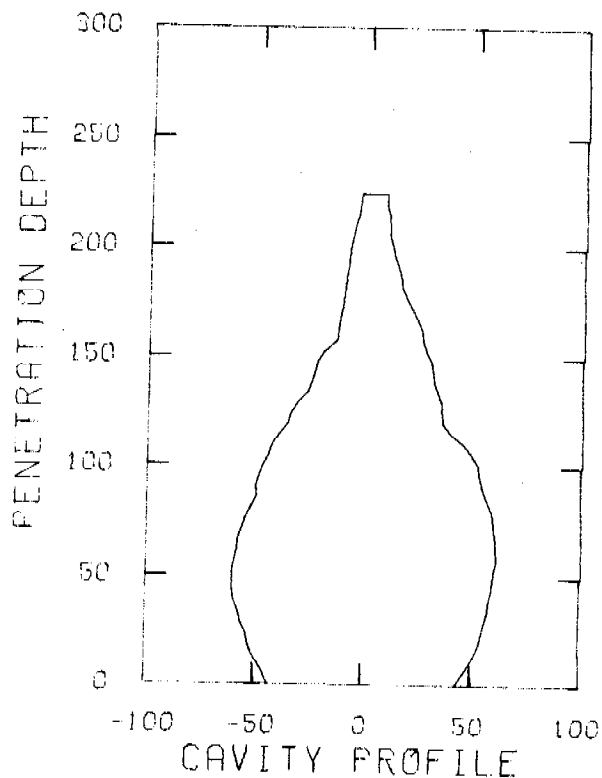
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-1	115	115
27	356	357
58	99	107
87	125	130
112	123	125
141	112	114
154	111	111

I CAVITY MEASUREMENTS

I	I	I
I	PENETRATION	CAVITY
I	DISTANCE (MM)	RADIUS(MM)
I	0	43
I	4	45
I	9	48
I	14	51
I	19	53
I	23	54
I	28	56
I	33	57
I	38	58
I	42	59
I	47	60
I	52	60
I	57	60
I	62	59
I	66	59
I	71	58
I	76	57
I	81	55
I	86	52
I	90	52
I	95	50
I	100	49
I	104	46
I	109	44
I	114	39
I	119	35
I	124	34
I	129	32
I	133	30
I	138	28
I	143	26
I	147	26
I	152	23
I	157	19
I	161	19
I	166	17
I	171	15
I	176	14
I	181	12
I	185	12
I	190	11
I	195	10
I	200	9
I	205	8
I	209	7
I	214	6
I	219	5
I	224	5



ROUND NUMBER -- 424

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --SPEER,JHP,38CAL

PROJECTILE VELOCITY (MPS) --448.06

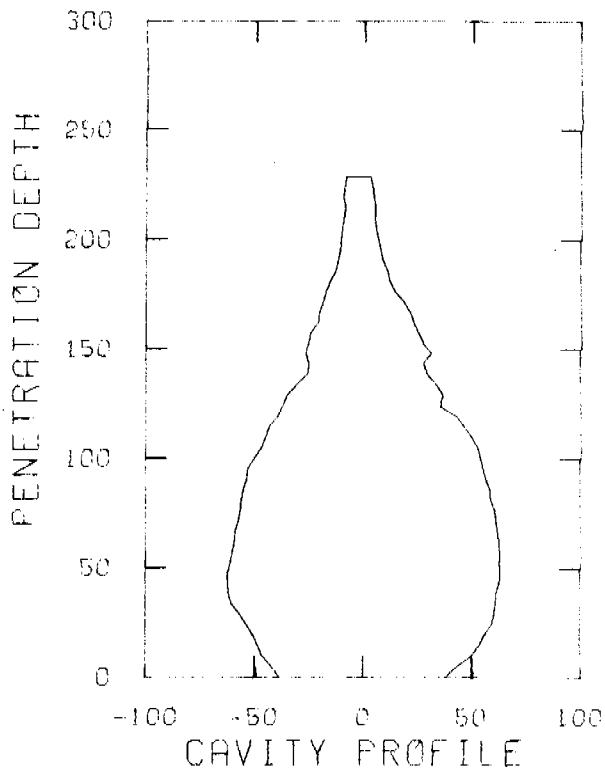
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-2	124	124
27	301	201
56	102	102
86	102	102
112	101	101
142	106	108
153	112	112

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	38
I	5	43
I	9	48
I	14	51
I	18	53
I	23	56
I	28	58
I	33	60
I	37	61
I	43	62
I	47	63
I	52	62
I	57	61
I	61	61
I	66	60
I	71	59
I	76	58
I	81	57
I	86	56
I	90	55
I	95	54
I	100	51
I	105	49
I	109	47
I	114	44
I	119	41
I	124	36
I	128	35
I	133	31
I	138	27
I	143	26
I	147	28
I	152	26
I	157	24
I	162	21
I	166	20
I	172	18
I	176	15
I	181	13
I	186	11
I	190	10
I	195	9
I	200	8
I	205	7
I	209	6
I	214	6
I	219	6
I	224	6



ROUND NUMBER 424 CONTINUED

I	228	5
I	0	0
I	0	0

ROUND NUMBER -- 501

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --SPEER,JHP,357

PROJECTILE VELOCITY (MPS) --498.04

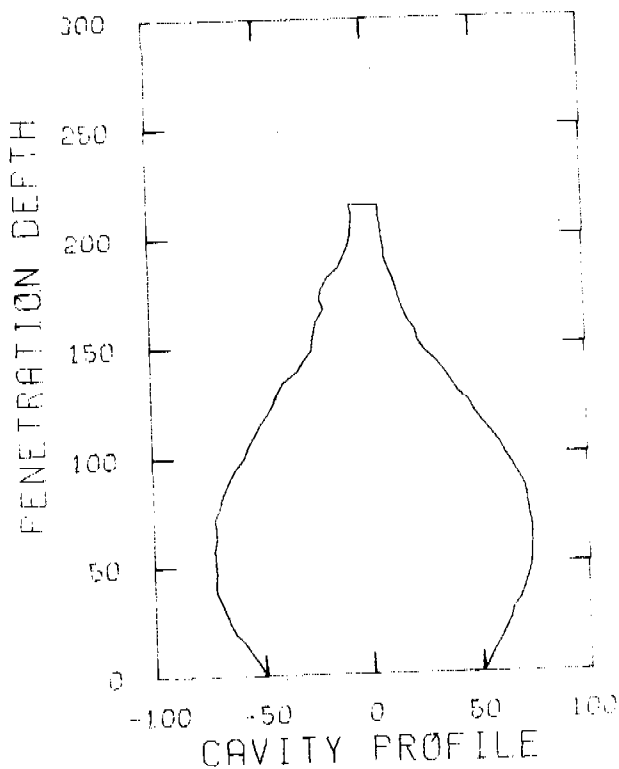
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
1	98	99
34	215	213
66	121	122
93	117	117
118	90	91
144	214	215
155	195	206

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	50
4	52
9	55
14	58
19	62
24	64
29	66
33	68
38	70
43	71
48	72
52	72
57	73
62	72
66	72
71	72
76	71
81	70
86	68
90	65
95	63
100	59
105	57
109	54
114	50
119	47
124	44
128	41
133	38
136	33
143	30
148	25
152	24
157	22
162	20
166	18
171	18
176	17
181	14
185	11
190	9
195	8
200	7
204	6
209	5
214	6



ROUND NUMBER -- 502

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --SPEER,JHP,357

PROJECTILE VELOCITY (MPS) --518.46

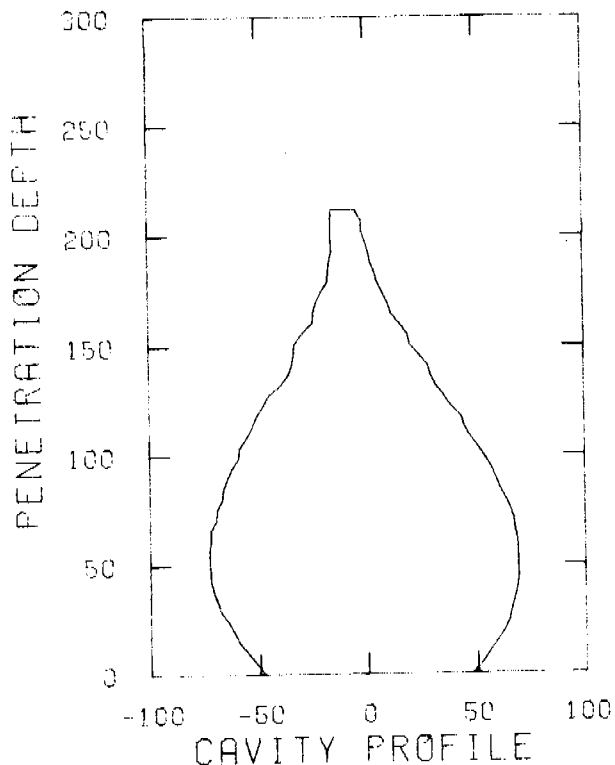
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
1	148	148
33	323	323
65	127	128
91	132	134
116	125	125
142	165	166
151	134	134

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	47
4	51
9	55
14	59
19	61
23	64
28	66
33	68
37	69
42	70
47	70
51	70
56	71
61	70
66	69
70	68
75	67
80	65
85	63
89	61
94	59
98	56
103	55
108	51
113	48
118	46
122	43
127	40
132	35
136	32
141	31
146	28
150	26
155	24
160	20
164	18
169	16
174	14
179	11
183	10
188	9
193	8
197	7
202	6
207	6
212	5



ROUND NUMBER -- 398

PROJECTILE MASS (GM) -- 8.10

PROJECTILE TYPE --SPEER,JHP,38CAL

PROJECTILE VELOCITY (MPS) --229.51

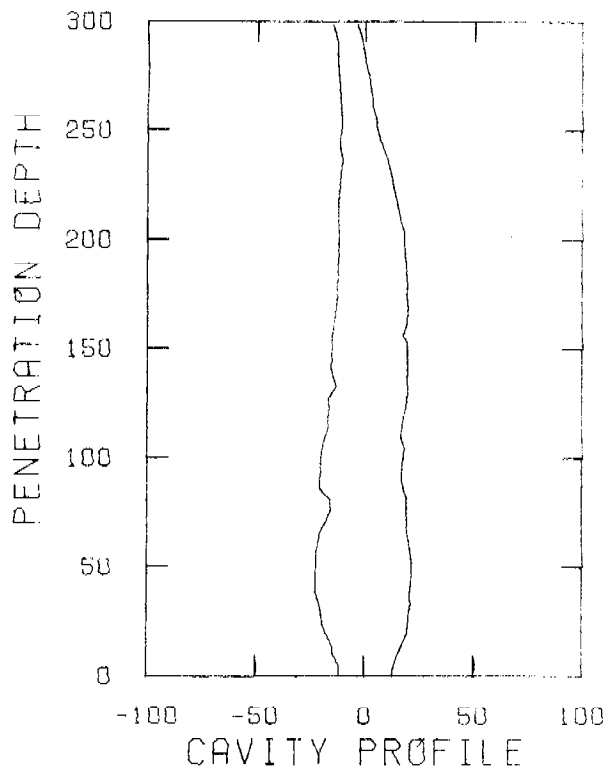
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	55	55
11	58	58
34	57	59
58	54	61
84	56	63
119	58	60
136	53	63

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	12
I	4	12
I	9	14
I	14	16
I	18	18
I	23	19
I	28	20
I	32	21
I	37	21
I	42	22
I	47	22
I	52	22
I	56	21
I	61	20
I	66	19
I	70	18
I	75	17
I	80	17
I	85	19
I	89	18
I	94	18
I	99	18
I	103	18
I	108	17
I	113	16
I	118	17
I	123	17
I	127	17
I	132	16
I	137	17
I	141	17
I	146	17
I	151	17
I	156	16
I	160	16
I	165	16
I	170	16
I	175	16
I	179	16
I	184	15
I	189	15
I	193	15
I	198	14
I	203	14
I	208	14
I	212	13
I	217	13
I	222	12



ROUND NUMBER 398 CONTINUED

I	227	11
I	231	13
I	236	10
I	241	9
I	246	8
I	251	7
I	255	7
I	260	7
I	265	7
I	270	6
I	274	6
I	279	6
I	283	6
I	289	5
I	293	5
I	298	5
I	303	6
I	307	6
I	312	3
I		

ROUND NUMBER -- 432

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --SPEER,JHP,38CAL

PROJECTILE VELOCITY (MPS) --316.08

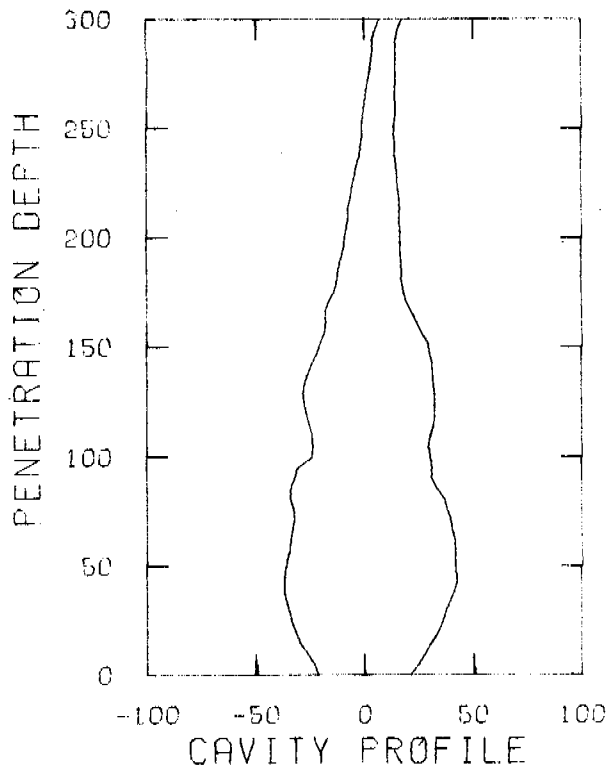
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-6	59	59
16	154	155
45	124	128
72	120	123
100	134	134
134	129	145
151	126	143

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	21
I	4	24
I	9	26
I	14	30
I	19	32
I	23	34
I	28	35
I	33	37
I	38	39
I	42	39
I	47	39
I	52	38
I	57	38
I	61	37
I	66	36
I	71	35
I	76	35
I	80	35
I	85	33
I	90	31
I	94	30
I	99	27
I	104	26
I	109	27
I	114	28
I	118	29
I	123	30
I	128	30
I	133	29
I	138	28
I	142	27
I	147	25
I	152	24
I	156	22
I	161	20
I	166	19
I	170	17
I	175	15
I	180	14
I	185	14
I	190	13
I	194	12
I	199	12
I	204	12
I	208	11
I	213	11
I	218	11
I	223	10



ROUND NUMBER 432 CONTINUED

I	228	9
I	232	9
I	237	8
I	242	7
I	247	7
I	251	7
I	256	7
I	261	7
I	266	6
I	270	6
I	275	5
I	280	5
I	285	5
I	290	5
I	294	5
I	299	5
I	303	2
I		

ROUND NUMBER -- 397

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --SPEER,JHP,38CAL

PROJECTILE VELOCITY (MPS) --339.24

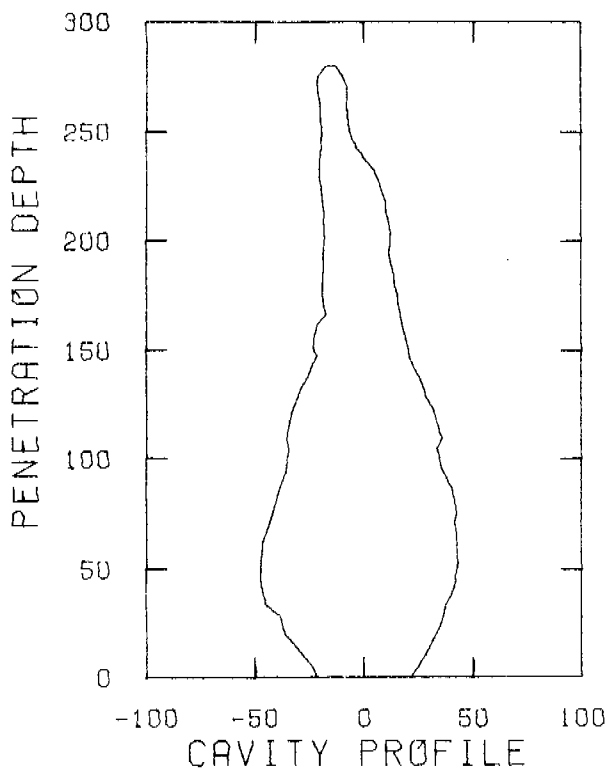
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-8	75	76
15	193	193
44	123	124
72	103	104
99	100	115
133	132	132
148	110	121

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	21
I	4	24
I	9	27
I	14	30
I	19	34
I	23	36
I	28	37
I	33	41
I	37	43
I	42	44
I	47	44
I	52	45
I	56	44
I	61	44
I	66	43
I	71	42
I	75	42
I	80	41
I	85	39
I	90	37
I	94	35
I	99	34
I	104	33
I	109	35
I	113	34
I	118	33
I	123	31
I	128	29
I	132	27
I	137	25
I	142	23
I	147	21
I	152	21
I	156	20
I	161	19
I	166	16
I	170	16
I	175	16
I	180	16
I	185	15
I	189	15
I	194	14
I	199	15
I	204	14
I	209	14
I	213	13
I	218	14
I	223	13



ROUND NUMBER 397 CONTINUED

1	228	13
1	232	12
1	237	10
1	242	8
1	246	6
1	253	5
1	256	5
1	263	5
1	266	6
1	270	6
1	275	5
1	280	1

ROUND NUMBER -- 431

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --SPEER,JHP,38CAL

PROJECTILE VELOCITY (MPS) --382.52

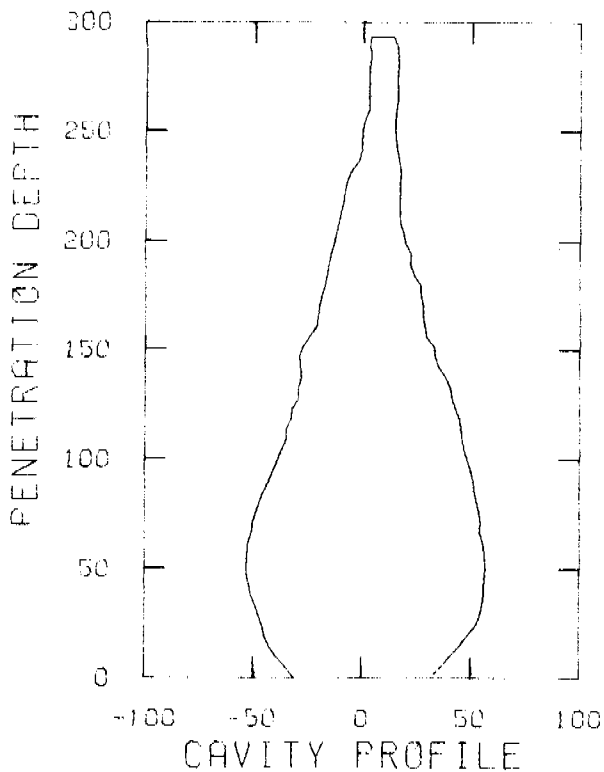
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-4	82	82
21	278	283
54	117	118
84	128	129
112	104	104
145	114	117
161	100	101

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	31
I	4	35
I	9	39
I	14	43
I	18	46
I	23	48
I	28	50
I	33	52
I	37	53
I	42	54
I	47	54
I	52	55
I	56	54
I	61	54
I	66	52
I	71	52
I	75	51
I	80	49
I	85	48
I	89	47
I	94	45
I	99	43
I	104	42
I	108	40
I	113	40
I	118	38
I	123	37
I	127	35
I	132	34
I	137	33
I	142	31
I	146	31
I	151	30
I	156	27
I	161	24
I	165	23
I	170	23
I	175	22
I	179	21
I	184	19
I	189	18
I	194	18
I	199	16
I	203	15
I	208	13
I	213	13
I	217	12
I	222	12



ROUND NUMBER 431 CONTINUED

I	227	12
I	231	11
I	236	9
I	241	7
I	246	7
I	251	7
I	255	6
I	260	6
I	265	6
I	270	6
I	274	6
I	279	6
I	284	6
I	288	6
I	293	5

ROUND NUMBER -- 430

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --SPEER,JHP,38CAL

PROJECTILE VELOCITY (MPS) --406.91

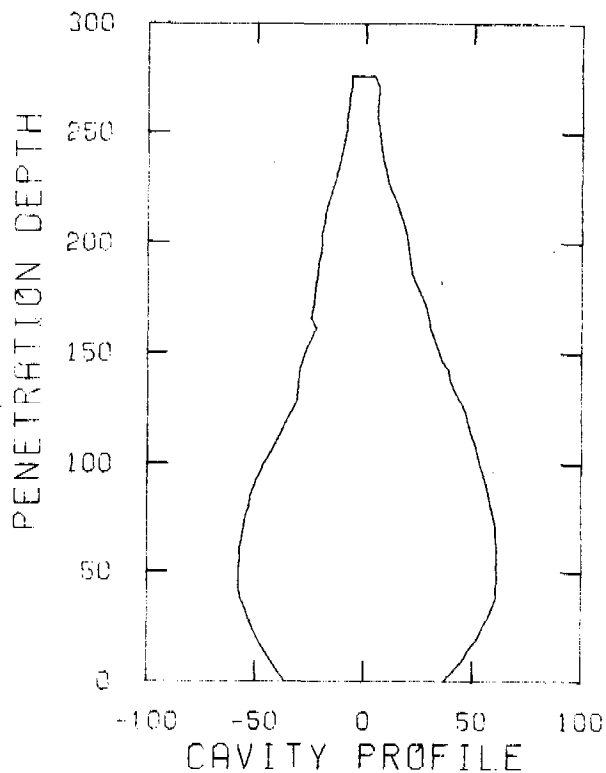
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-1	132	132
23	272	272
56	148	148
86	127	131
115	118	118
149	133	133
164	148	148

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	I CAVITY RADIUS(MM)
I 0	I 36
I 4	I 40
I 9	I 44
I 14	I 46
I 18	I 50
I 23	I 52
I 28	I 55
I 33	I 56
I 38	I 58
I 42	I 59
I 47	I 59
I 52	I 59
I 57	I 59
I 61	I 59
I 66	I 58
I 71	I 57
I 75	I 57
I 80	I 55
I 85	I 54
I 90	I 53
I 94	I 51
I 99	I 49
I 104	I 47
I 109	I 45
I 113	I 43
I 118	I 41
I 123	I 39
I 128	I 37
I 132	I 35
I 137	I 34
I 142	I 34
I 147	I 32
I 152	I 30
I 156	I 28
I 161	I 26
I 166	I 27
I 171	I 25
I 175	I 24
I 180	I 23
I 185	I 21
I 190	I 21
I 194	I 20
I 199	I 19
I 204	I 19
I 208	I 18
I 213	I 17
I 218	I 15
I 223	I 13



ROUND NUMBER 430 CONTINUED

I	228	12
I	232	11
I	237	9
I	242	8
I	247	8
I	252	7
I	256	6
I	261	6
I	266	6
I	271	6
I	275	5
I		

ROUND NUMBER -- 396

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --SPEER,JHP,38CAL

PROJECTILE VELOCITY (MPS) --435.86

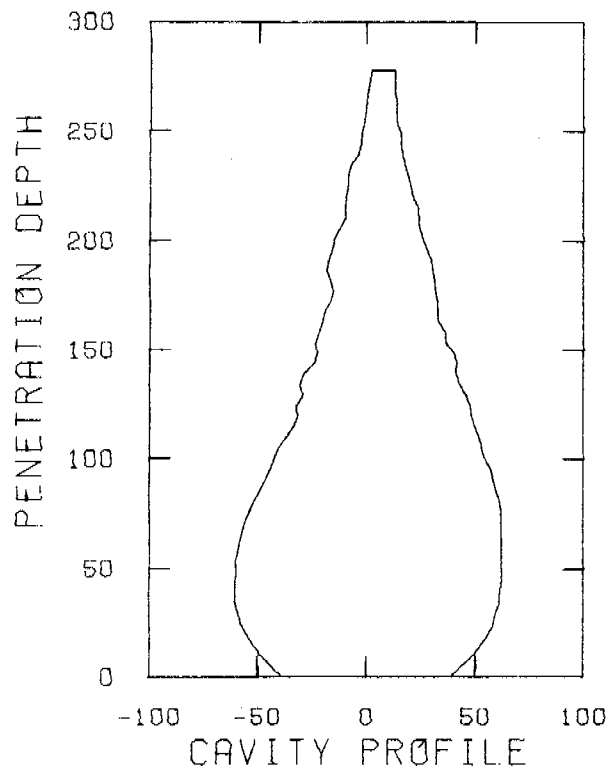
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
4	183	183
34	125	125
66	163	166
97	150	151
125	148	149
159	141	141
173	128	129

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	39
4	44
9	48
14	52
19	55
23	58
28	59
33	61
38	61
42	61
47	61
52	61
57	60
62	60
66	59
71	58
76	57
81	56
86	54
91	52
95	50
100	48
105	46
110	43
115	41
119	39
124	39
129	37
134	36
138	34
143	32
148	31
153	29
158	28
162	26
167	25
172	24
177	23
181	23
186	24
191	23
196	21
201	20
205	18
210	16
215	16
220	15
225	14



ROUND NUMBER 396 CONTINUED

1	229	13
1	234	12
1	239	9
1	244	8
1	249	8
1	253	7
1	258	6
1	263	6
1	268	5
1	273	5
1	277	5
1		

ROUD NUMBER -- 401

PROJECTILE MASS (GM) -- 9.072

PROJECTILE TYPE --SPEER,JHP,38CAL

PROJECTILE VELOCITY (MPS) --231.65

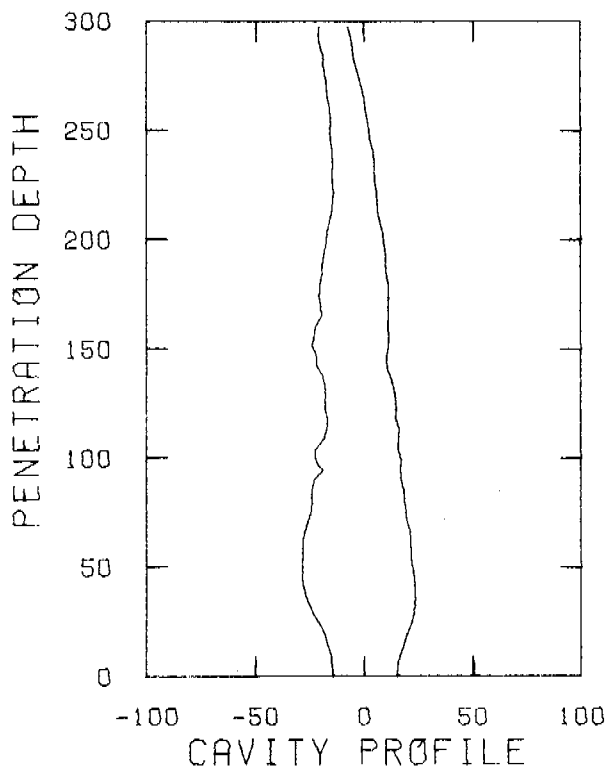
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-13	50	50
5	80	81
27	58	58
51	76	76
77	53	60
109	46	75
126	39	70

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	14
5	15
9	16
14	17
19	18
23	21
28	23
33	24
38	25
42	26
47	25
52	25
57	25
61	24
66	24
71	22
75	21
80	21
85	20
90	19
94	17
99	19
104	18
108	17
113	16
118	15
122	16
127	15
132	15
137	15
141	16
146	15
151	17
155	17
160	16
165	15
170	15
174	15
179	15
184	14
189	14
193	13
198	13
203	12
207	11
212	10
217	9
222	9



ROUND NUMBER 401 CONTINUED

1	226	9
1	238	9
1	236	9
1	241	9
1	246	8
1	250	8
1	255	8
1	259	7
1	264	8
1	269	7
1	274	7
1	278	7
1	283	6
1	288	7
1	292	7
1	297	6
1	302	6
1	306	5



ROUND NUMBER 434 CONTINUED

I	227	12
I	232	11
I	237	11
I	242	10
I	246	10
I	251	9
I	256	8
I	261	8
I	265	7
I	270	7
I	275	7
I	280	6
I	285	6
I	289	7
I	294	7
I	299	6
I	304	6
I	308	7
I	313	5
I		

ROUND NUMBER -- 400

PROJECTILE MASS (GM) -- 9.072

PROJECTILE TYPE --SPEER,JHP,38CAL

PROJECTILE VELOCITY (MPS) --315.47

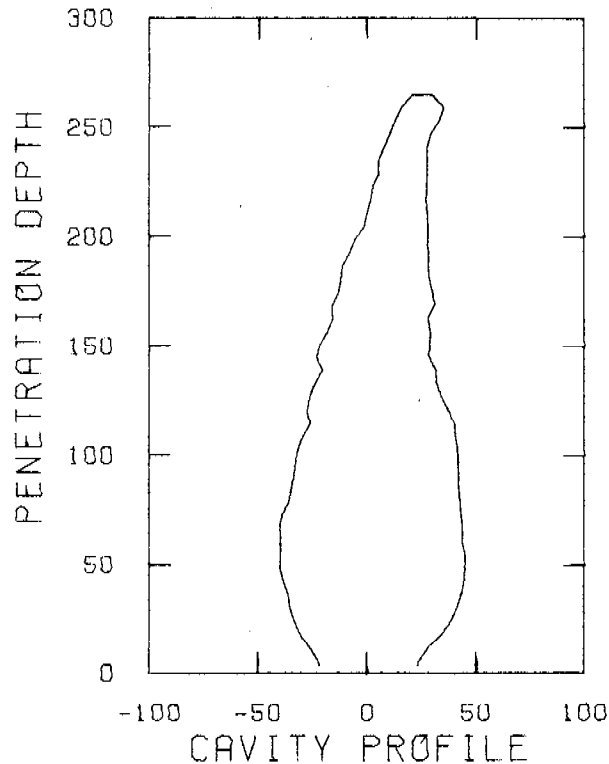
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-8	60	60
16	166	166
43	198	201
72	158	167
100	152	158
134	138	153
150	143	152

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	21
5	23
11	27
18	32
24	36
30	38
36	40
41	41
48	42
54	42
60	41
66	42
72	41
78	39
84	38
90	37
96	37
102	36
108	34
114	33
120	32
126	30
132	27
138	25
144	25
150	25
156	23
162	21
168	23
174	21
180	20
186	19
192	17
198	16
204	14
210	13
216	12
222	12
228	10
234	10
240	9
246	9
253	10
258	9
264	4



ROUND NUMBER -- 433

PROJECTILE MASS (GM) -- 9.072

PROJECTILE TYPE --SPEER,JHP,38CAL

PROJECTILE VELOCITY (MPS) --377.95

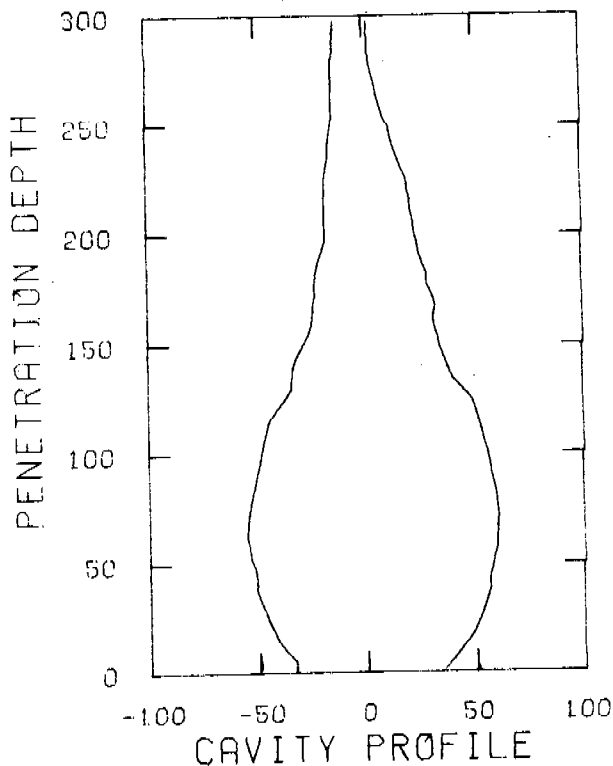
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-2	89	90
23	216	217
55	188	188
85	161	170
115	169	188
152	172	172
170	167	167

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	33
I 5	36
I 9	40
I 14	43
I 19	46
I 24	48
I 28	50
I 33	52
I 38	54
I 43	53
I 48	54
I 52	56
I 57	57
I 62	57
I 67	57
I 72	57
I 76	56
I 81	56
I 86	55
I 91	53
I 96	52
I 100	51
I 105	50
I 110	49
I 115	48
I 119	46
I 124	43
I 129	39
I 134	37
I 138	35
I 143	34
I 148	31
I 153	29
I 158	28
I 163	27
I 167	28
I 172	26
I 177	25
I 182	25
I 187	24
I 191	22
I 196	21
I 200	20
I 206	20
I 211	19
I 215	19
I 220	18
I 225	18



ROUND NUMBER 433 CONTINUED

I	230	17
I	234	15
I	239	14
I	244	14
I	249	13
I	254	11
I	258	11
I	263	10
I	268	9
I	273	9
I	278	8
I	283	7
I	287	8
I	292	7
I	297	7
I	302	7
I	307	7
I	311	7
I	316	6
I		

ROUND NUMBER -- 402

PROJECTILE MASS (GN) -- 9.072

PROJECTILE TYPE --SPEED,JHP,90CAL

PROJECTILE VELOCITY (MPS) --432.21

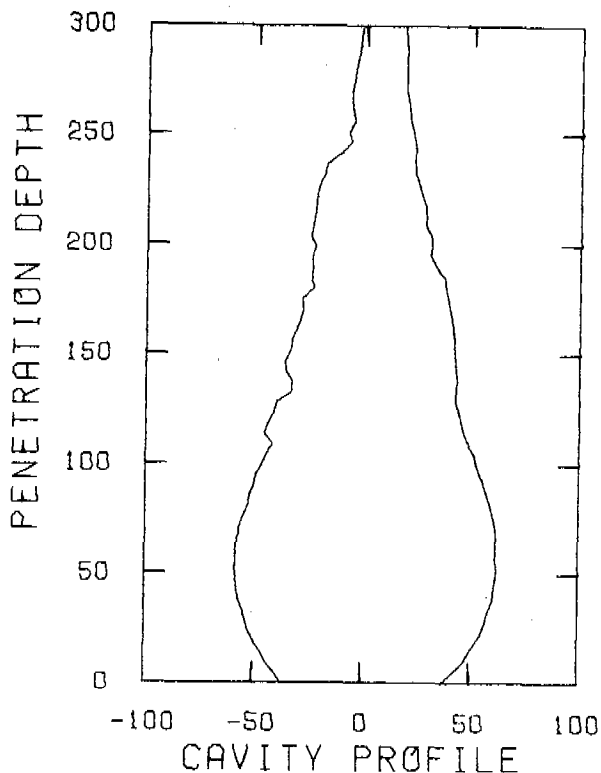
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	68	68
27	215	219
62	106	114
97	96	107
131	93	104
172	92	93
191	88	96

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	37
I	4	41
I	9	45
I	14	48
I	19	51
I	23	54
I	28	55
I	33	56
I	37	58
I	42	59
I	47	60
I	52	60
I	56	60
I	61	59
I	66	59
I	71	59
I	75	57
I	80	55
I	85	54
I	90	53
I	94	51
I	99	49
I	104	47
I	108	45
I	113	45
I	118	44
I	123	42
I	128	41
I	132	38
I	137	38
I	142	39
I	146	39
I	151	37
I	156	37
I	160	36
I	165	34
I	170	33
I	175	33
I	179	30
I	184	30
I	189	28
I	193	27
I	199	26
I	203	27
I	208	25
I	213	25
I	217	24
I	222	23



ROUND NUMBER 402 CONTINUED

1	227	22
1	232	20
1	236	19
1	241	16
1	246	14
1	251	14
1	255	12
1	260	12
1	265	12
1	270	12
1	274	12
1	279	11
1	284	11
1	289	10
1	293	10
1	298	9
1	303	8
1	307	8
1	312	8
1	317	7
1	322	5

ROUND NUMBER -- 399

PROJECTILE MASS (GM) -- 9.072

PROJECTILE TYPE --SPEED,JHP,30CAL

PROJECTILE VELOCITY (MPS) --460.86

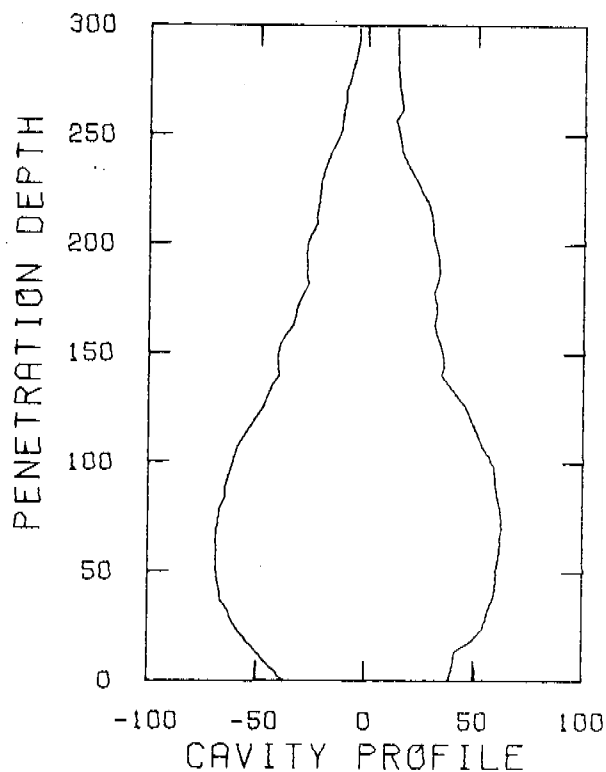
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	71	72
25	242	245
62	115	116
99	97	98
132	142	144
172	123	127
190	127	129

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	38
4	40
9	43
13	46
18	51
23	56
27	58
32	60
37	62
41	63
46	64
51	64
55	65
60	65
65	65
70	65
74	65
79	64
83	62
88	62
93	61
97	60
102	58
107	56
125	46
130	43
135	40
139	37
144	37
149	37
153	36
158	34
163	32
167	32
172	31
177	29
181	29
186	30
191	30
195	29
200	28
205	27
209	26
214	26
219	24
224	23
228	22
233	19



ROUND NUMBER 399 CONTINUED

1	237	17
1	242	16
1	246	14
1	251	12
1	256	12
1	261	13
1	266	12
1	270	12
1	275	11
1	279	10
1	284	9
1	289	9
1	293	8
1	298	8
1	303	8
1	307	8
1	312	6
1	315	5

RUND NUMBER -- 404

PROJECTILE MASS (GM) -- 9.461

PROJECTILE TYPE --SPEER,JHP,38CAL

PROJECTILE VELOCITY (MPS) --223.11

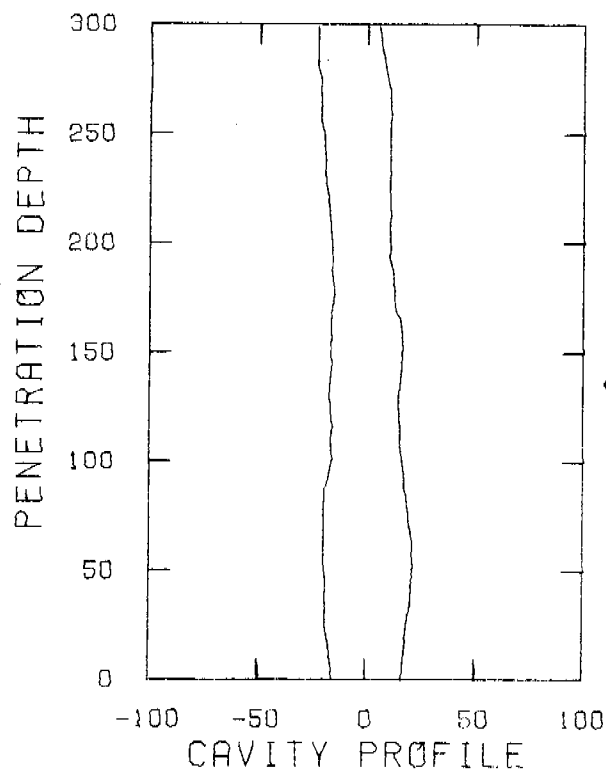
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-10	37	37
7	55	55
31	59	64
59	52	57
86	52	57
125	55	56
145	46	48

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	16
4	16
9	17
14	17
19	18
24	18
29	19
33	19
38	19
43	19
48	20
53	20
57	20
62	20
67	20
72	19
77	19
82	18
87	18
91	17
96	16
100	15
106	15
111	15
115	15
120	15
125	15
130	15
135	16
140	16
144	16
149	16
154	16
158	16
164	15
168	14
173	13
178	13
183	13
187	13
192	12
197	13
202	13
207	13
212	13
216	14
221	14
226	14



ROUND NUMBER 404 CONTINUED

I	231	15
I	236	14
I	240	15
I	246	15
I	250	15
I	255	16
I	260	16
I	265	16
I	270	15
I	274	15
I	279	15
I	284	15
I	289	14
I	293	14
I	298	13
I	303	13
I	308	13
I	313	12
I	318	10
I	322	10
I	327	8

ROUND NUMBER -- 408

PROJECTILE MASS (GM) -- 9.461

PROJECTILE TYPE --SPEER,JHP,30CAL

PROJECTILE VELOCITY (MPS) --327.66

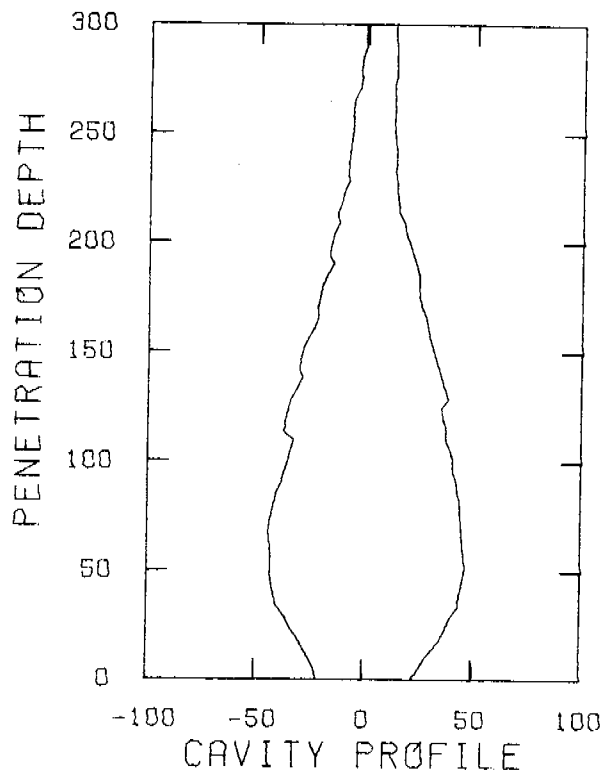
PROJECTILE DIAMETER (CM) -- 9.008

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	64	65
16	110	110
46	115	116
76	116	116
105	109	109
142	115	116
159	106	109

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	21
4	24
9	26
14	30
19	33
23	35
28	38
33	41
38	42
42	44
47	44
52	45
57	44
61	44
66	44
70	44
76	43
80	42
85	41
90	40
95	38
99	38
104	36
109	35
113	37
118	36
123	35
128	36
133	34
137	32
142	31
147	30
152	29
156	27
161	25
166	24
171	23
175	22
180	21
185	20
190	18
194	19
199	17
204	16
209	14
213	14
218	12
223	11



ROUND NUMBER 400 CONTINUED

I	227	10
I	232	10
I	237	10
I	242	10
I	247	9
I	251	9
I	256	9
I	261	9
I	265	9
I	270	7
I	275	7
I	280	8
I	285	7
I	289	6
I	294	6
I	299	6
I	303	6
I	308	6
I	313	6
I	318	6
I	322	4

ROUND NUMBER -- 437

PROJECTILE MASS (GM) -- 9.461

PROJECTILE TYPE --SPEER,JHP,38CAL

PROJECTILE VELOCITY (MPS) --350.22

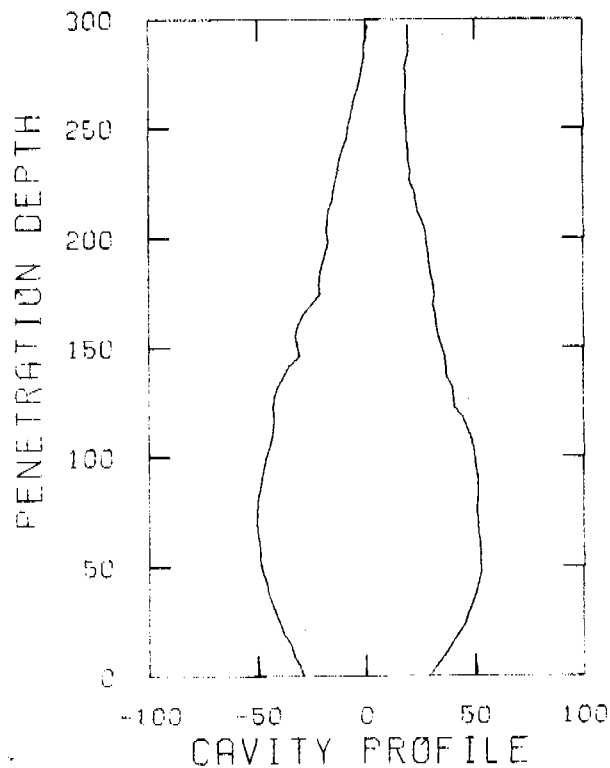
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-5	69	71
19	118	118
52	135	135
82	118	118
112	119	121
150	125	125
168	143	144

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	29
I 4	31
I 9	34
I 14	37
I 19	39
I 23	42
I 28	44
I 33	46
I 37	47
I 42	48
I 47	50
I 51	50
I 56	50
I 61	50
I 66	50
I 70	50
I 75	50
I 80	50
I 85	50
I 89	49
I 94	48
I 99	48
I 103	47
I 108	45
I 113	44
I 118	43
I 122	41
I 127	41
I 132	40
I 136	37
I 141	36
I 146	33
I 150	33
I 155	32
I 160	31
I 165	30
I 169	27
I 174	26
I 179	26
I 183	25
I 188	24
I 193	23
I 197	22
I 202	22
I 207	21
I 212	20
I 217	19
I 221	18



ROUND NUMBER 437 CONTINUED

I	226	16
I	230	16
I	235	15
I	240	14
I	245	13
I	249	13
I	254	12
I	259	12
I	264	11
I	268	10
I	273	10
I	278	9
I	283	9
I	287	10
I	292	9
I	297	9
I	301	8
I	306	7
I	310	7
I	315	6
I		

ROUND NUMBER -- 436

PROJECTILE MASS (GM) -- 9.461

PROJECTILE TYPE --SPEER,JHP,38CAL

PROJECTILE VELOCITY (MPS) --363.63

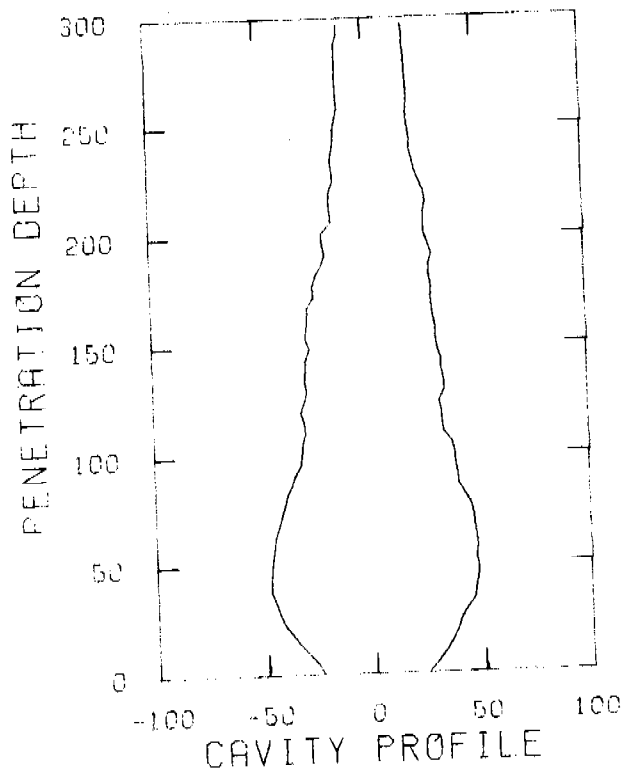
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	69	70
23	113	113
57	142	156
92	118	157
129	111	126
176	146	150
200	141	174

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	I CAVITY RADIUS(MM)
I 0	24
I 4	27
I 9	31
I 14	35
I 19	38
I 23	40
I 28	43
I 33	45
I 38	47
I 43	47
I 47	47
I 52	46
I 57	46
I 62	46
I 67	45
I 71	44
I 76	42
I 81	40
I 86	38
I 90	37
I 95	35
I 100	35
I 105	34
I 110	31
I 114	31
I 119	32
I 124	30
I 129	31
I 134	31
I 139	31
I 143	31
I 148	29
I 153	29
I 158	29
I 162	29
I 167	28
I 172	26
I 177	27
I 182	25
I 186	24
I 191	24
I 196	24
I 201	23
I 205	21
I 210	21
I 215	22
I 220	21
I 225	19



ROUND NUMBER 436 CONTINUED

I	229	19
I	234	18
I	239	17
I	244	17
I	249	17
I	253	16
I	258	15
I	263	16
I	268	16
I	272	16
I	277	16
I	282	15
I	287	15
I	292	15
I	296	14
I	301	14
I	306	13
I	311	12
I	316	12
I		

ROUND NUMBER -- 403

PROJECTILE MASS (GM) -- 9.461

PROJECTILE TYPE --SPEER,JHP,30CAL

PROJECTILE VELOCITY (MPS) --394.72

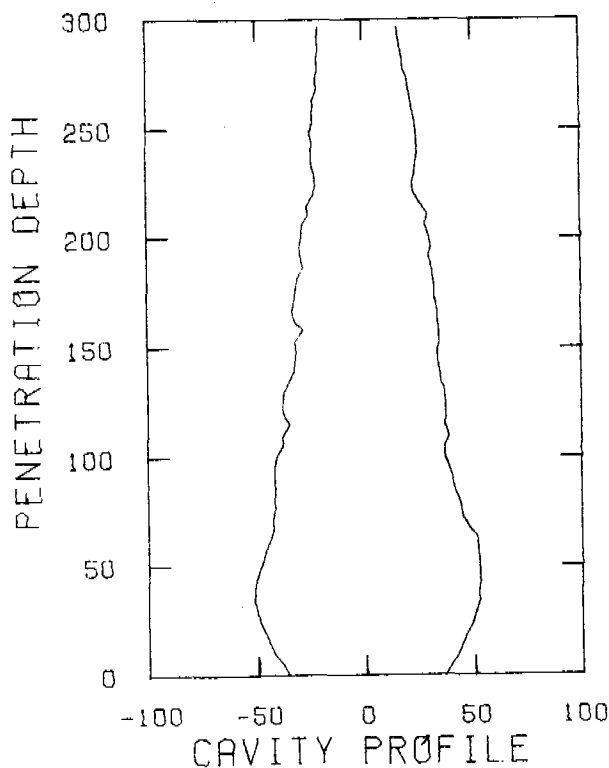
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	90	90
26	146	146
63	147	149
103	72	72
142	58	58
193	136	137
220	144	144

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	36
I	5	39
I	9	42
I	14	44
I	19	46
I	24	49
I	28	50
I	33	52
I	38	51
I	43	51
I	47	51
I	52	49
I	57	48
I	62	47
I	67	45
I	71	43
I	76	42
I	81	42
I	86	41
I	91	40
I	95	39
I	100	38
I	105	37
I	110	38
I	114	35
I	119	37
I	124	37
I	129	37
I	134	35
I	138	33
I	143	32
I	148	32
I	153	33
I	157	31
I	162	33
I	167	33
I	172	32
I	177	31
I	181	31
I	186	29
I	191	29
I	196	30
I	200	29
I	205	28
I	210	27
I	215	26
I	220	23
I	225	22



ROUND NUMBER 403 CONTINUED

I	229	22
I	234	23
I	239	24
I	244	24
I	248	24
I	253	23
I	258	22
I	263	22
I	268	20
I	272	20
I	277	19
I	282	19
I	287	18
I	292	18
I	296	18
I	301	17
I	305	16
I	311	14
I	315	13
I		

ROUND NUMBER -- 435

PROJECTILE MASS (GM) -- 9.461

PROJECTILE TYPE --SPEER,JHP,38CAL

PROJECTILE VELOCITY (MPS) --402.03

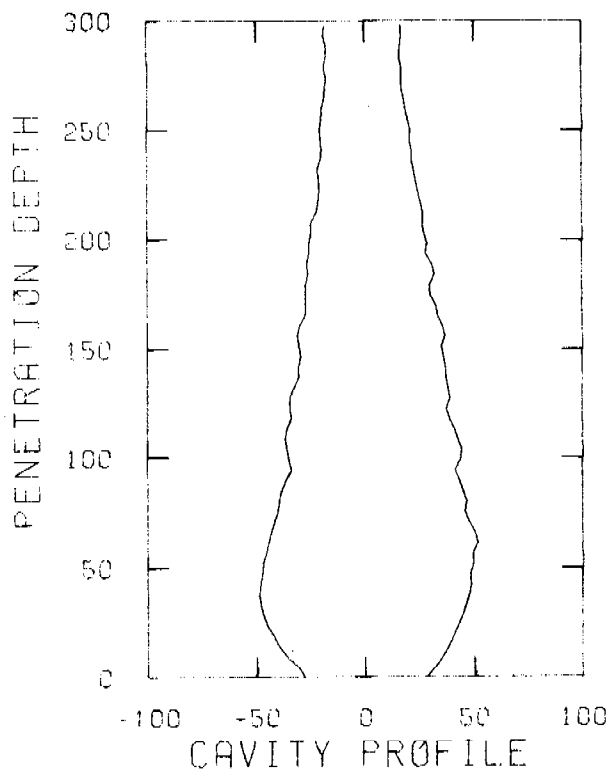
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-2	72	72
27	149	149
63	156	158
103	150	152
142	166	170
192	168	174
217	135	140

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	28
I	4	31
I	9	35
I	14	38
I	19	41
I	23	43
I	28	45
I	33	47
I	37	48
I	42	48
I	47	47
I	52	48
I	56	47
I	61	48
I	66	46
I	71	44
I	75	43
I	80	43
I	84	41
I	89	40
I	94	37
I	99	39
I	104	40
I	108	39
I	113	38
I	118	36
I	122	35
I	127	36
I	132	35
I	136	33
I	141	33
I	146	32
I	151	32
I	156	33
I	160	32
I	165	30
I	169	29
I	174	28
I	179	28
I	184	29
I	189	28
I	193	26
I	198	27
I	203	25
I	207	25
I	212	24
I	217	23
I	222	22



ROUND NUMBER 435 CONTINUED

I	226	22
I	231	22
I	236	20
I	240	20
I	245	20
I	250	20
I	255	19
I	259	19
I	264	18
I	269	17
I	273	17
I	278	17
I	283	16
I	288	16
I	292	17
I	297	17
I	302	16
I	306	16
I	311	15
I	316	14
I	321	14

ROUND NUMBER -- 395

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --SPEER,JSP,38CAL

PROJECTILE VELOCITY (MPS) --224.03

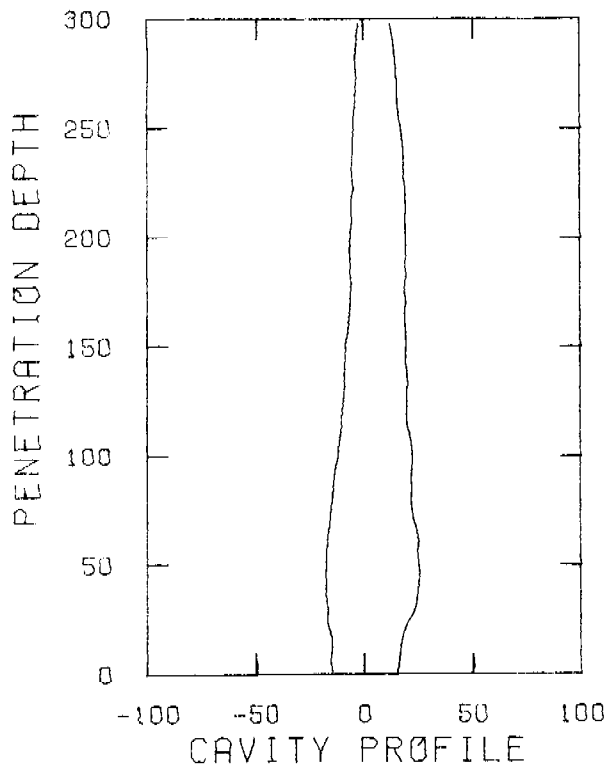
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-14	43	43
4	56	57
28	54	54
55	54	54
82	56	56
122	56	56
142	54	55

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	15
4	15
9	15
14	15
19	17
23	18
28	19
33	20
37	21
42	21
47	21
52	21
56	21
61	21
66	20
71	19
75	18
80	18
85	18
89	17
94	17
99	17
104	16
108	15
113	15
118	15
122	14
127	14
132	14
137	14
141	13
146	13
151	13
156	13
160	12
165	12
170	12
174	12
179	12
184	12
189	12
193	12
198	12
203	12
207	12
212	12
217	12
222	11



ROUND NUMBER 395 CONTINUED

I	226	11
I	231	11
I	236	11
I	241	11
I	245	11
I	250	10
I	255	10
I	260	9
I	264	9
I	269	9
I	274	9
I	278	9
I	283	8
I	288	8
I	293	7
I	297	7
I	302	6
I	307	5
I	311	4
I		

ROUND NUMBER -- 427

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --SPEER,JSP,38CAL

PROJECTILE VELOCITY (MPS) --238.35

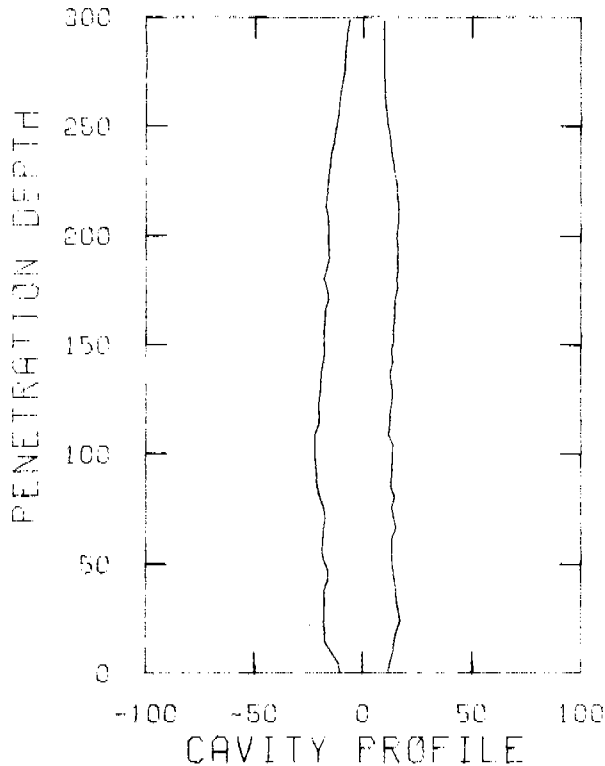
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-10	52	52
9	50	50
33	68	69
62	50	50
91	51	57
130	27	49
149	34	62

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	11
I	4	11
I	9	14
I	14	15
I	18	16
I	23	17
I	28	17
I	33	16
I	38	16
I	42	15
I	47	15
I	52	15
I	57	16
I	61	15
I	66	16
I	71	15
I	75	15
I	80	17
I	85	16
I	90	17
I	95	17
I	99	17
I	104	18
I	109	16
I	114	16
I	118	16
I	123	16
I	128	16
I	133	16
I	137	15
I	142	16
I	147	15
I	151	16
I	156	15
I	161	16
I	166	16
I	170	15
I	175	16
I	180	16
I	185	16
I	189	15
I	194	15
I	199	15
I	204	16
I	208	16
I	213	16
I	218	16
I	222	16



ROUND NUMBER 427 CONTINUED

I	227	15
I	232	14
I	237	14
I	241	13
I	246	12
I	251	11
I	256	11
I	260	10
I	265	10
I	270	9
I	275	9
I	279	8
I	284	8
I	289	8
I	294	8
I	298	7
I	303	7
I	308	6
I	313	6
I	317	2
I		

ROUND NUMBER -- 429

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --SPEER,JSP,38CAL

PROJECTILE VELOCITY (MPS) --309.07

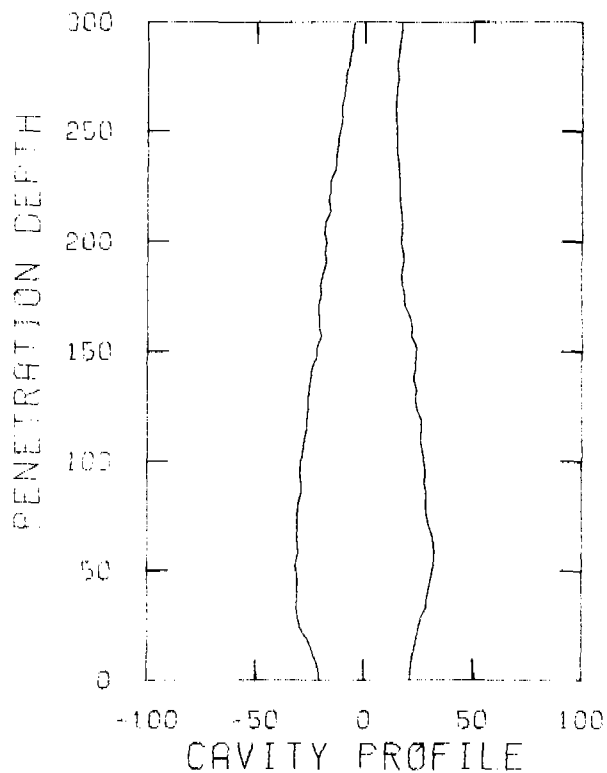
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-6	49	49
19	56	57
48	64	64
82	56	57
116	51	53
160	58	58
182	52	54

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	20
I	4	21
I	9	22
I	14	23
I	19	25
I	23	27
I	28	28
I	33	29
I	37	29
I	42	30
I	47	30
I	52	31
I	57	31
I	61	31
I	66	31
I	71	30
I	76	29
I	80	29
I	85	28
I	90	28
I	94	28
I	99	28
I	104	27
I	109	26
I	114	26
I	118	26
I	123	25
I	128	24
I	133	24
I	137	23
I	142	23
I	147	22
I	151	23
I	156	20
I	161	21
I	166	20
I	170	19
I	175	19
I	180	18
I	185	18
I	189	17
I	194	18
I	199	17
I	204	17
I	209	17
I	213	16
I	218	16
I	223	15



ROUND NUMBER 429 CONTINUED

I	227	15
I	232	14
I	237	14
I	242	13
I	246	13
I	251	12
I	256	12
I	261	12
I	265	11
I	270	11
I	275	11
I	280	11
I	284	11
I	289	10
I	294	11
I	299	10
I	303	10
I	308	9
I	313	8
I	317	8
I		

ROUND NUMBER -- 394

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --SPEER,JSP,30CAL

PROJECTILE VELOCITY (MPS) --325.22

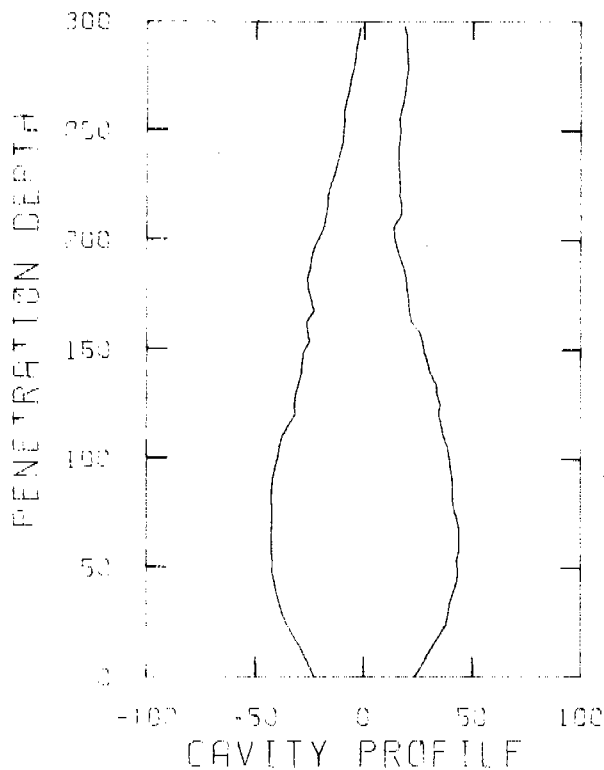
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-8	60	60
17	74	76
48	78	80
77	78	82
107	68	70
146	77	77
165	74	74

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	23
4	25
9	28
14	30
19	34
24	36
28	38
33	39
38	40
43	42
48	43
53	42
57	43
62	43
67	43
71	42
76	41
81	41
86	41
91	41
95	40
100	39
105	38
110	37
115	34
120	33
124	32
129	32
134	30
139	28
143	28
148	27
153	25
158	23
162	23
168	21
172	22
177	22
182	22
187	20
191	19
196	18
201	16
206	17
211	17
215	16
220	16
225	15



ROUND NUMBER 394 CONTINUED

I	230	14
I	235	14
I	239	13
I	244	13
I	249	12
I	254	13
I	259	13
I	263	13
I	268	13
I	273	13
I	278	12
I	282	11
I	288	11
I	292	10
I	297	10
I	302	10
I	307	9
I	311	7
I	316	7
I	321	6
I	326	1

ROUND NUMBER -- 428

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --SPEER,JSP,38CAL

PROJECTILE VELOCITY (MPS) --398.68

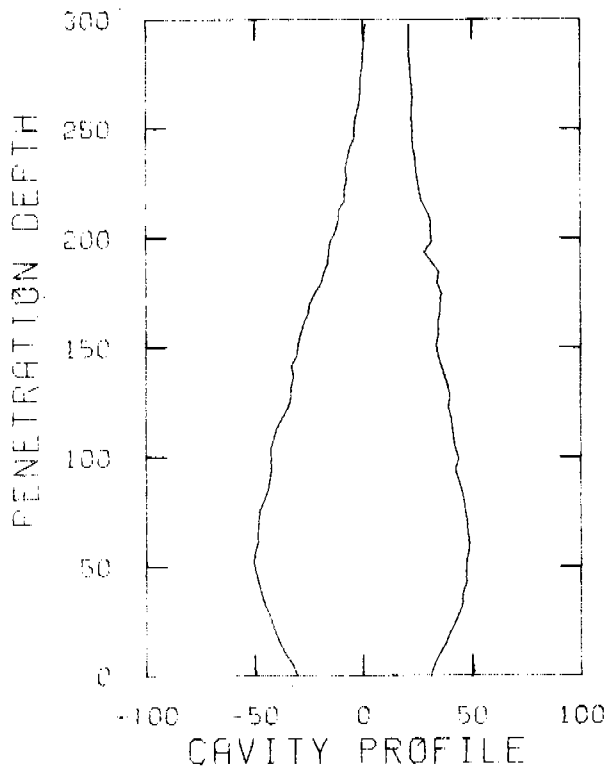
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	69	69
27	96	100
61	112	112
97	160	162
130	162	165
171	86	86
191	80	82

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	30
I	5	32
I	9	35
I	14	37
I	18	39
I	23	41
I	28	43
I	33	45
I	37	46
I	42	47
I	47	48
I	52	48
I	56	49
I	61	48
I	66	48
I	70	48
I	75	47
I	80	45
I	85	44
I	89	43
I	94	42
I	99	43
I	104	42
I	108	41
I	113	40
I	117	38
I	123	36
I	127	36
I	132	36
I	136	34
I	141	34
I	146	32
I	151	31
I	155	31
I	160	30
I	165	30
I	170	30
I	175	29
I	179	26
I	184	26
I	188	24
I	193	22
I	198	23
I	202	21
I	208	21
I	212	20
I	217	17
I	222	17



ROUND NUMBER 428 CONTINUED

I	226	16
I	231	16
I	236	15
I	241	14
I	245	13
I	250	13
I	255	12
I	260	12
I	264	12
I	269	11
I	274	11
I	279	10
I	283	10
I	288	10
I	293	10
I	297	9
I	302	9
I	307	8
I	312	7
I	316	6
I		

ROUND NUMBER -- 393

PROJECTILE MASS (GM) -- 8.100

PROJECTILE TYPE --SPEER,JSP,38CAL

PROJECTILE VELOCITY (MPS) --429.46

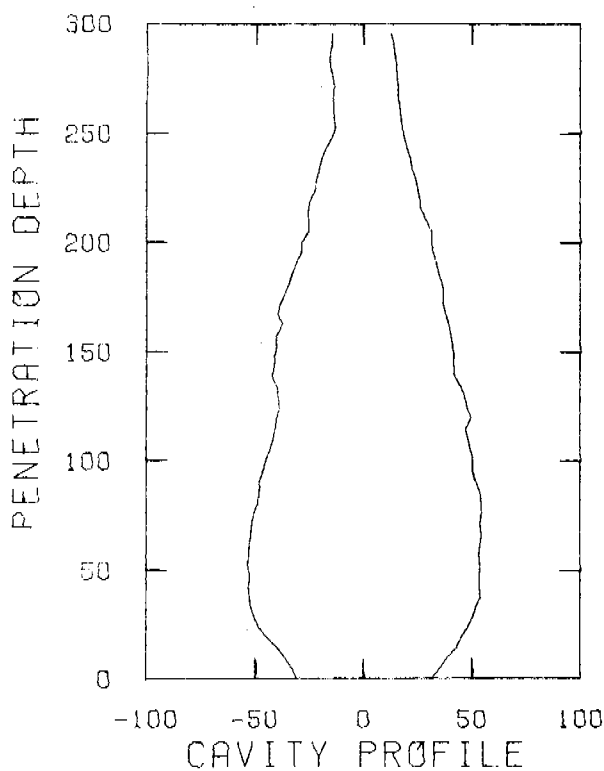
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-4	93	93
27	136	137
63	158	160
100	132	134
134	137	137
177	108	108
197	148	152

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	31
4	33
9	37
14	41
19	45
23	48
151	267
177	274
200	281
42	53
47	53
52	53
57	53
62	53
66	53
71	52
76	52
81	51
85	50
90	49
95	48
100	47
105	46
109	44
114	43
119	44
124	43
128	42
133	42
138	42
143	41
148	41
152	40
157	39
162	38
167	38
171	37
176	36
181	35
186	33
191	31
195	30
200	29
205	28
210	26
214	25
219	25
224	23



ROUND NUMBER 393 CONTINUED

I	229	22
I	233	21
I	238	20
I	243	18
I	248	16
I	252	15
I	257	15
I	262	14
I	267	14
I	272	14
I	276	14
I	281	15
I	286	14
I	291	13
I	295	13
I	300	12
I	305	11
I	310	10
I	314	9
I	319	8
I		

ROUND NUMBER -- 509

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --SPEER,JSP,357

PROJECTILE VELOCITY (MPS) --240.18

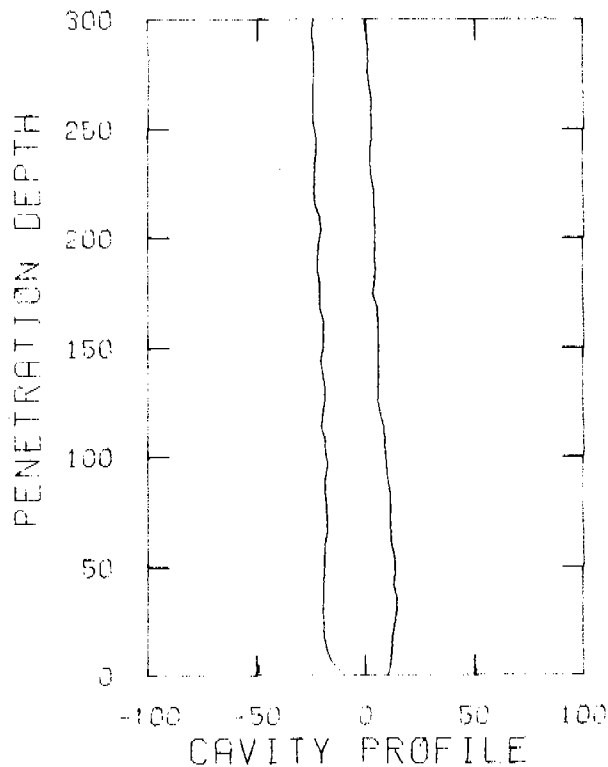
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-9	52	52
11	46	47
36	57	57
63	58	58
94	57	57
137	51	54
158	50	61

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	10
I	6	13
I	12	15
I	18	15
I	24	16
I	30	17
I	36	16
I	41	16
I	48	16
I	54	16
I	60	15
I	66	14
I	72	14
I	78	14
I	84	14
I	90	14
I	96	13
I	102	13
I	108	13
I	114	14
I	120	13
I	126	12
I	132	12
I	138	12
I	144	13
I	149	12
I	156	12
I	162	12
I	168	13
I	173	12
I	179	12
I	185	13
I	192	13
I	197	13
I	204	12
I	209	12
I	215	13
I	222	13
I	227	13
I	234	12
I	240	12
I	246	12
I	252	13
I	257	13
I	263	13
I	270	12
I	275	12
I	281	12



ROUND NUMBER 509 CONTINUED

I	287	12
I	293	12
I	299	11
I	305	11
I	311	10
I	318	9

ROUND NUMBER -- 508

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --SPEER,JSP,357

PROJECTILE VELOCITY (MPS) --289.86

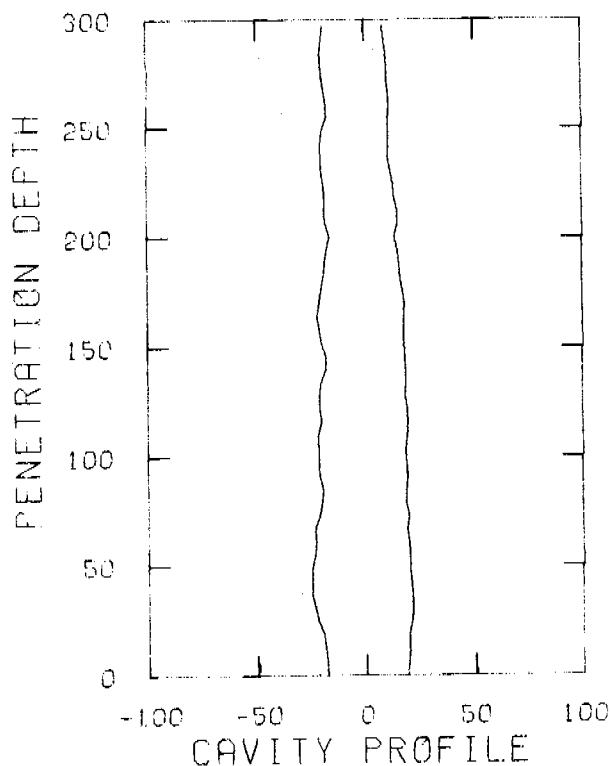
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-9	54	55
13	55	55
42	56	59
76	54	56
111	52	59
160	52	57
183	54	64

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	18
6	18
12	19
18	19
24	21
30	22
36	23
42	22
48	22
54	21
60	21
67	21
72	20
78	19
85	19
91	20
97	20
103	19
109	20
115	19
121	20
127	19
133	19
139	18
145	18
152	18
157	19
163	19
170	19
176	18
182	17
188	17
194	16
200	14
206	16
212	16
218	15
224	16
230	15
236	15
242	15
248	15
254	14
260	14
266	14
273	14
278	15
285	15



ROUND NUMBER 508 CONTINUED

I	290	14
I	297	13
I	302	13
I	309	12
I	314	12
I	320	11

ROUND NUMBER -- 417

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --SPEER,JSP,38CAL

PROJECTILE VELOCITY (MPS) --307.85

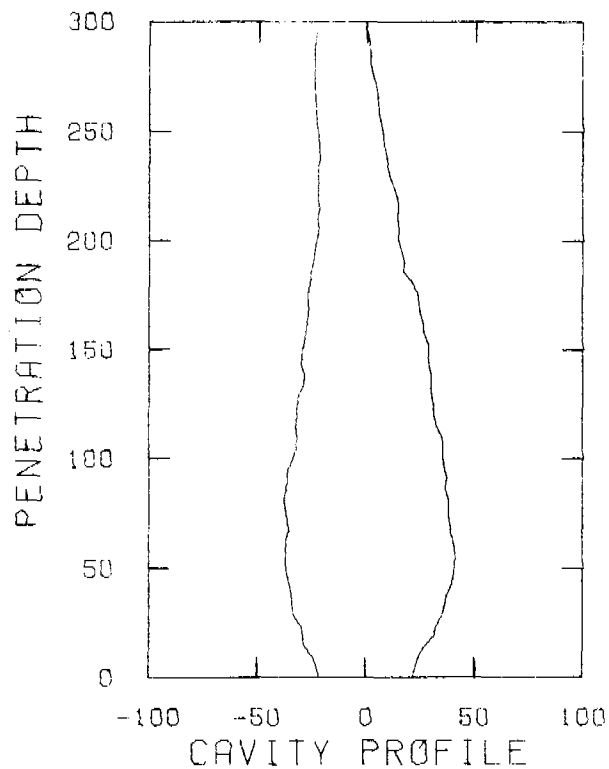
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	64	64
17	66	66
47	66	66
77	69	69
107	67	67
149	60	63
168	47	51

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	21
I	4	22
I	9	24
I	14	27
I	19	30
I	23	31
I	28	34
I	33	35
I	38	35
I	42	37
I	47	38
I	52	39
I	57	39
I	61	38
I	66	37
I	71	37
I	76	37
I	81	37
I	85	36
I	90	36
I	95	35
I	100	34
I	105	33
I	110	33
I	114	32
I	119	31
I	124	31
I	129	30
I	133	29
I	138	28
I	143	29
I	147	28
I	152	28
I	157	27
I	162	26
I	167	25
I	172	25
I	176	24
I	181	23
I	186	21
I	191	20
I	195	19
I	200	18
I	205	18
I	210	18
I	214	17
I	219	17
I	224	17



ROUND NUMBER 417 CONTINUED

I	229	16
I	234	15
I	238	15
I	243	14
I	248	14
I	253	14
I	257	14
I	262	14
I	267	14
I	272	13
I	276	13
I	281	12
I	286	12
I	291	12
I	295	11
I	300	10
I	305	10
I	310	9
I	315	9
I	319	8
I	324	7

ROUND NUMBER -- 473

PROJECTILE MASS (GM) --30.238

PROJECTILE TYPE --SPEER,JSP,38CAL

PROJECTILE VELOCITY (MPS) --312.42

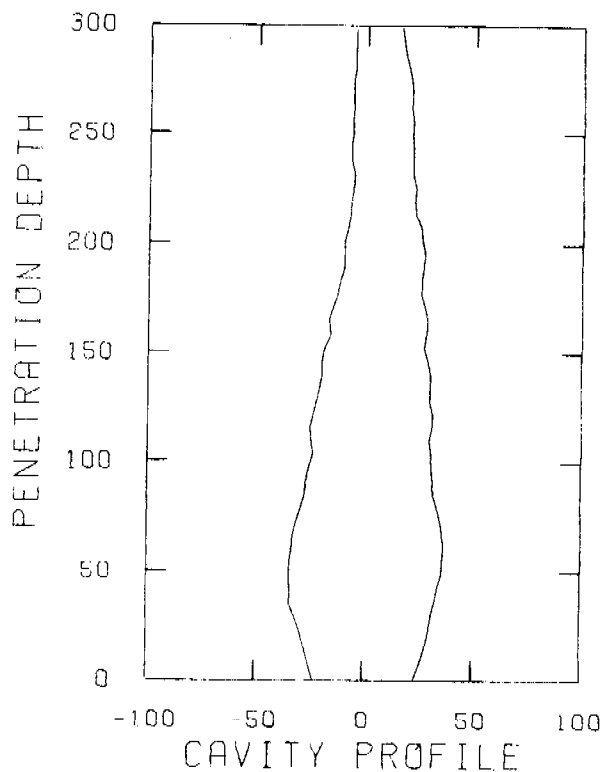
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-6	53	53
19	65	66
50	79	79
82	65	65
115	60	60
160	69	69
181	66	66

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	23
5	25
12	27
18	28
24	30
30	31
36	33
42	34
48	35
54	35
60	35
67	34
73	32
79	31
85	29
91	29
97	28
103	27
109	27
116	28
122	27
127	26
134	25
140	24
146	24
152	22
158	21
164	22
170	21
177	19
182	18
189	18
195	18
201	17
207	16
213	14
219	14
225	14
231	13
238	14
244	14
250	13
256	13
262	13
268	13
274	13
280	12
286	11



ROUND NUMBER 473 CONTINUED

I	292	10
I	298	10
I	304	9
I	310	9
I	316	8
I	322	6

ROUND NUMBER -- 472

PROJECTILE MASS (GM) -- 10.238

PROJECTILE TYPE -- SPEER, JSP, 38CAL

PROJECTILE VELOCITY (MPS) -- 335.58

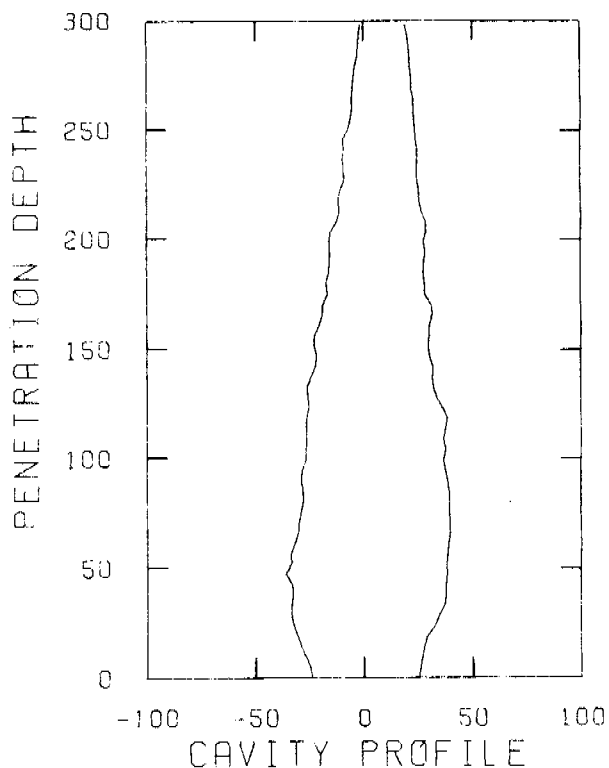
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
17	43	43
8	77	77
41	69	69
77	67	68
112	54	57
160	44	49
184	41	52

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	24
4	25
9	26
14	28
19	29
23	32
28	34
33	35
38	35
42	35
47	37
52	35
56	36
61	35
66	34
71	34
75	34
80	33
85	33
90	33
94	32
99	31
104	32
108	31
113	31
118	32
123	30
127	29
132	29
137	27
142	27
146	25
151	26
156	26
161	25
165	25
170	24
175	22
180	22
184	21
189	21
194	21
199	21
203	21
208	20
213	18
217	18
222	18



ROUND NUMBER 472 CONTINUED

I	227	16
I	232	16
I	236	16
I	241	16
I	246	16
I	250	15
I	255	14
I	260	13
I	265	14
I	269	13
I	274	13
I	279	12
I	284	11
I	288	11
I	293	11
I	298	10
I	303	9
I	307	9
I	312	9
I	316	8
I		

ROUND NUMBER -- 416

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --SPEER,JSP,38CAL

PROJECTILE VELOCITY (MPS) --405.38

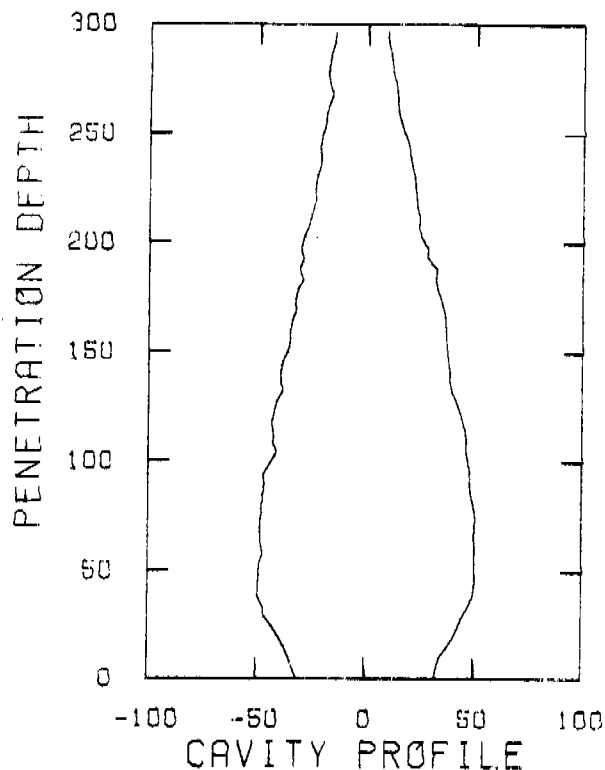
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-5	76	76
25	119	120
59	108	112
96	96	98
131	105	105
176	85	86
197	79	80

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	31
5	33
9	34
14	37
19	40
24	42
28	45
33	47
37	49
42	50
47	50
51	49
56	49
61	49
66	49
70	49
75	49
80	48
85	48
89	47
94	47
98	45
103	43
108	44
113	44
117	43
122	42
127	41
131	38
136	38
141	38
146	37
150	36
155	35
160	35
165	35
169	33
174	33
178	31
183	30
188	31
192	28
197	28
202	26
207	25
211	24
216	23
221	22



ROUND NUMBER 416, CONTINUED

I	226	22
I	230	22
I	235	20
I	239	20
I	244	20
I	249	18
I	254	17
I	258	16
I	263	15
I	268	14
I	273	14
I	277	14
I	282	14
I	287	13
I	291	12
I	296	11
I	301	12
I	306	11
I	310	11
I	315	9
I	319	8

ROUND NUMBER -- 448

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --SPEER,JSP,38CAL

PROJECTILE VELOCITY (MPS) --416.36

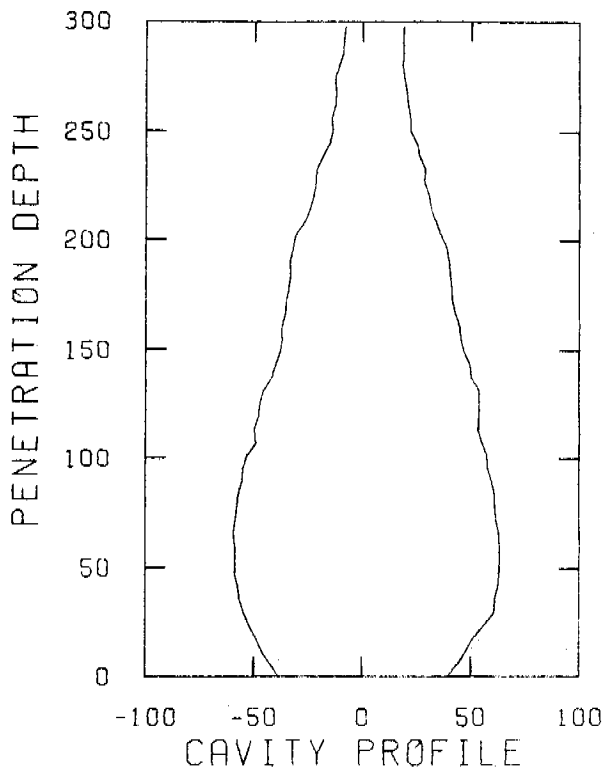
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	106	106
29	174	181
64	171	172
98	159	159
130	158	158
171	165	165
188	154	154

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	38
5	43
11	47
17	50
23	54
29	57
35	59
41	60
47	61
53	61
59	61
65	61
71	60
77	59
83	58
89	57
95	56
101	55
107	52
113	51
119	51
125	50
131	49
137	46
143	44
149	42
154	41
160	40
167	38
172	38
178	37
184	36
191	36
197	35
202	33
208	30
214	27
220	26
226	24
232	24
238	22
244	20
250	17
256	18
262	16
268	16
274	15
280	14



ROUND NUMBER 448 CONTINUED

I	286	13
I	292	13
I	298	13
I	304	13
I	309	11
I		

ROUND NUMBER -- 415

PROJECTILE MASS (GM) --10.28

PROJECTILE TYPE --SPEER,JSP,38CAL

PROJECTILE VELOCITY (MPS) --512.98

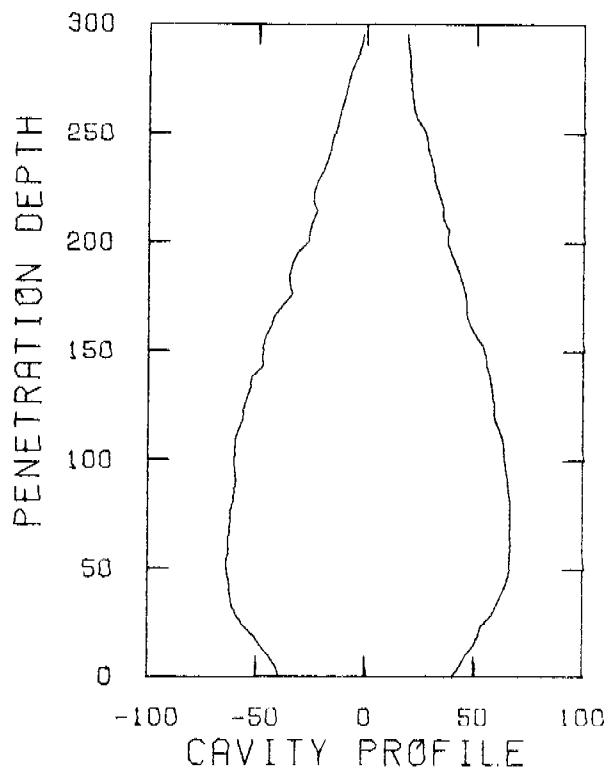
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	91	92
51	150	150
69	161	162
105	155	156
136	143	143
176	189	190
194	196	197

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	39
I	4	42
I	9	45
I	14	48
I	18	51
I	23	54
I	28	58
I	33	61
I	37	62
I	42	63
I	47	65
I	52	65
I	57	64
I	62	65
I	66	64
I	71	64
I	76	64
I	80	63
I	85	63
I	90	62
I	95	62
I	99	62
I	104	61
I	109	61
I	114	59
I	119	57
I	123	57
I	128	56
I	133	55
I	138	54
I	143	51
I	147	51
I	152	50
I	157	47
I	161	45
I	166	43
I	171	41
I	175	39
I	180	39
I	185	38
I	190	37
I	195	35
I	200	31
I	204	31
I	209	30
I	214	28
I	218	29
I	223	28



ROUND NUMBER 415 CONTINUED

I	228	26
I	233	25
I	236	23
I	242	22
I	247	21
I	47	2
I	257	17
I	261	16
I	266	15
I	271	14
I	276	13
I	280	12
I	285	11
I	290	10
I	295	9
I	300	9
I	304	9
I	309	8
I	314	7
I		

ROUND NUMBER -- 507

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --SPEER,JSP,357

PROJECTILE VELOCITY (MPS) --536.75

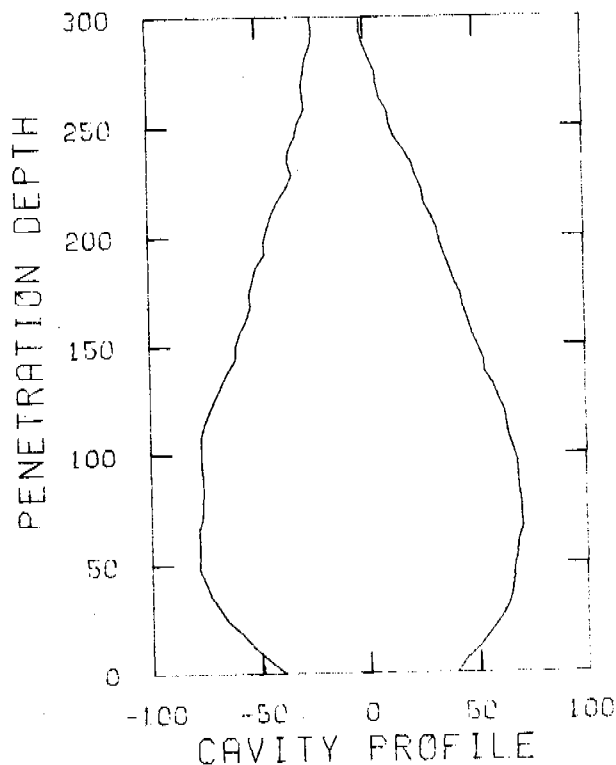
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
1	71	71
41	190	191
82	211	212
118	214	214
151	219	220
191	249	249
206	246	247

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	39
I	6	45
I	12	51
I	18	56
I	24	62
I	30	66
I	36	69
I	42	70
I	48	72
I	54	73
I	60	73
I	66	74
I	72	73
I	78	73
I	84	72
I	90	72
I	96	72
I	101	71
I	108	70
I	113	69
I	119	67
I	126	64
I	132	62
I	137	59
I	143	56
I	149	55
I	155	53
I	161	50
I	167	48
I	173	48
I	179	46
I	185	44
I	191	41
I	197	40
I	203	38
I	209	36
I	215	33
I	221	31
I	227	28
I	233	28
I	239	26
I	245	22
I	251	20
I	257	18
I	263	17
I	269	17
I	275	16
I	281	14



ROUND NUMBER 507 CONTINUED

I	287	12
I	293	10
I	298	11
I	305	9
I	311	8
I		

ROUND NUMBER -- 423

PROJECTILE MASS (GM) --10.368

PROJECTILE TYPE --SPEER,JSP,38CAL

PROJECTILE VELOCITY (MPS) --352.65

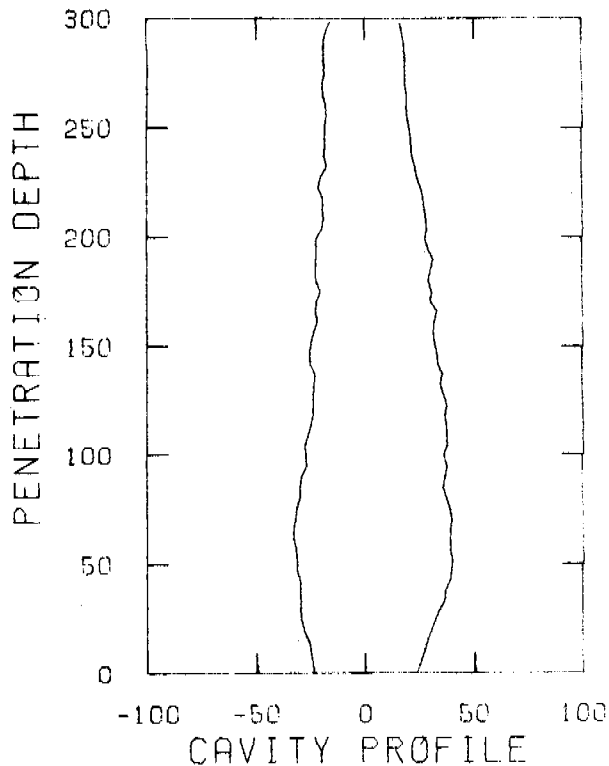
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-4	59	60
25	52	53
59	58	58
98	57	57
138	53	53
192	46	52
218	38	49

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	23
I	4	24
I	9	26
I	14	26
I	19	29
I	23	30
I	28	31
I	33	33
I	38	33
I	42	34
I	47	35
I	52	35
I	56	35
I	61	36
I	66	36
I	71	36
I	75	35
I	80	33
I	85	32
I	89	33
I	94	32
I	99	31
I	104	32
I	109	31
I	113	31
I	118	30
I	123	30
I	127	29
I	132	28
I	137	29
I	142	29
I	146	29
I	151	28
I	156	27
I	160	26
I	165	27
I	170	26
I	175	25
I	179	25
I	184	26
I	189	26
I	193	25
I	198	24
I	203	24
I	208	23
I	213	23
I	217	23
I	222	23



ROUND NUMBER 423 CONTINUED

I	227	22
I	231	20
I	236	20
I	241	19
I	245	19
I	250	19
I	255	18
I	260	18
I	264	19
I	269	18
I	274	18
I	279	18
I	283	18
I	288	18
I	293	17
I	297	15
I	302	15
I	307	15
I	312	14
I		

ROUND NUMBER -- 419

PROJECTILE MASS (GM) --10.368

PROJECTILE TYPE --SPEER, JSP, 38CAL

PROJECTILE VELOCITY (MPS) --374.90

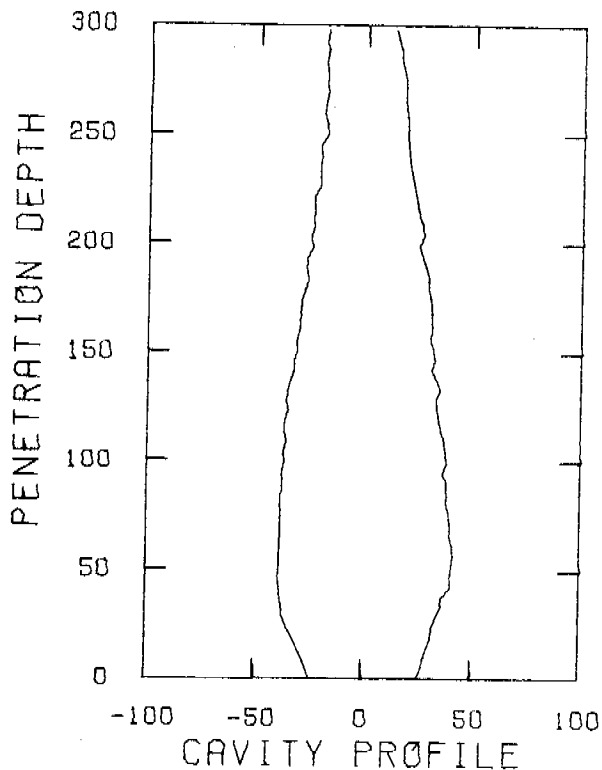
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	53	53
26	55	55
63	58	59
102	50	53
140	46	48
194	55	55
218	55	55

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	24
4	26
9	28
13	30
18	32
23	33
28	35
33	36
37	37
42	39
47	39
51	40
56	40
60	39
65	39
354	196
378	194
62	192
84	38
89	37
94	37
99	37
103	37
108	36
113	36
118	35
122	34
127	34
132	35
137	33
141	31
146	32
151	31
155	30
160	30
165	30
169	29
174	29
179	28
183	27
188	27
193	26
198	24
203	25
207	25
212	24
217	23
227	23



ROUND NUMBER 419 CONTINUED

I	226	21
I	231	20
I	236	20
I	240	19
I	245	19
I	250	18
I	255	18
I	259	18
I	264	18
I	269	17
I	273	18
I	278	17
I	283	17
I	288	16
I	292	16
I	297	15
I	302	14
I	307	14
I	311	13
I	315	13
I		

ROUND NUMBER -- 420

PROJECTILE MASS (GM) --10.360

PROJECTILE TYPE --SPEER,JSP,38CAL

PROJECTILE VELOCITY (MPS) --405.69

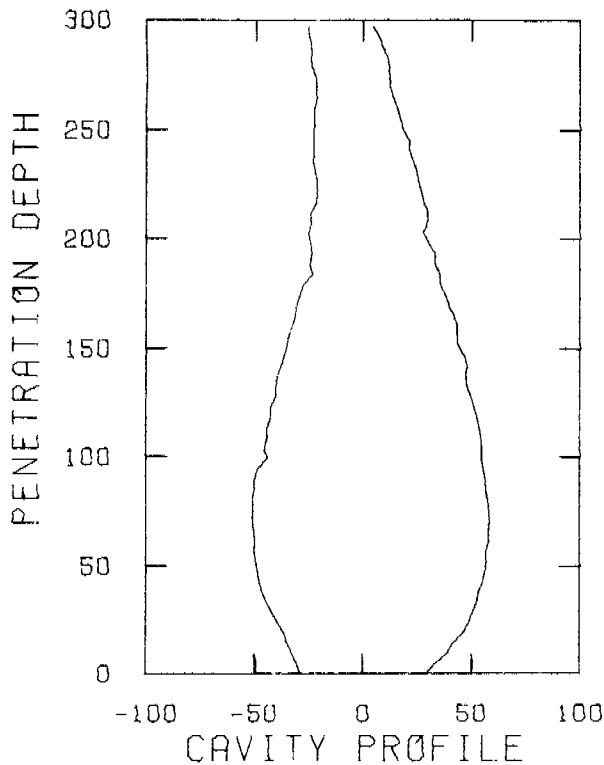
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
1	51	51
32	61	61
67	87	90
101	77	83
134	65	74
182	86	86
204	91	93

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	29
I	4	32
I	9	35
I	14	38
I	19	41
I	23	44
I	142	231
I	166	242
I	189	250
I	42	51
I	47	52
I	52	53
I	57	53
I	61	54
I	66	54
I	70	54
I	75	54
I	80	54
I	84	53
I	89	53
I	94	52
I	99	49
I	103	50
I	108	49
I	113	48
I	118	47
I	122	46
I	127	44
I	132	43
I	136	43
I	141	42
I	146	41
I	151	39
I	155	38
I	160	37
I	164	36
I	169	34
I	174	33
I	179	31
I	183	29
I	188	28
I	193	28
I	198	26
I	202	26
I	207	26
I	212	26
I	216	24
I	221	23



ROUND NUMBER 420 CONTINUED

I	226	23
I	231	23
I	235	22
I	240	21
I	245	21
I	249	20
I	254	19
I	259	18
I	264	17
I	269	16
I	273	16
I	278	17
I	282	17
I	287	16
I	292	16
I	296	14
I	301	12
I	306	11
I	311	10
I	315	9
I		

ROUND NUMBER -- 423

PROJECTILE MASS (GM) --10.368

PROJECTILE TYPE --SPEER,JSP,30CAL

PROJECTILE VELOCITY (MPS) --424.59

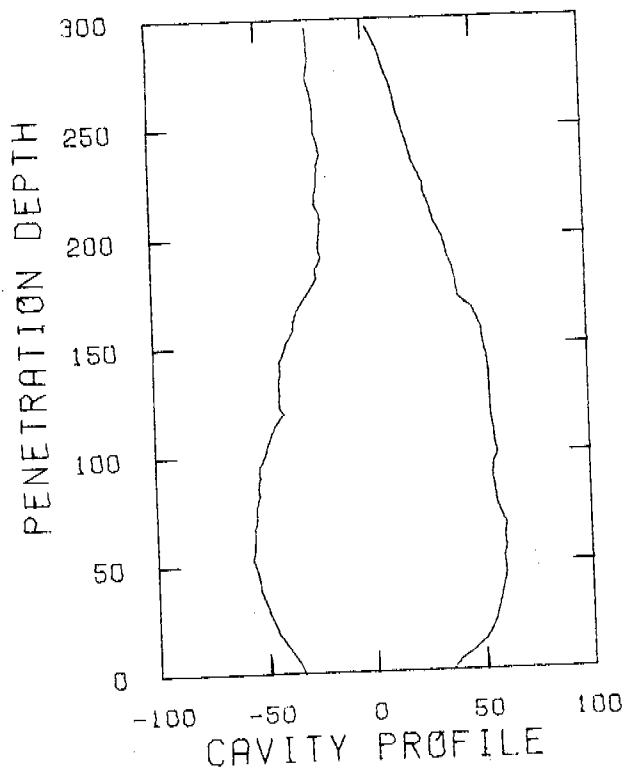
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-2	69	69
31	86	87
66	98	99
101	88	88
134	91	91
177	86	97
199	86	92

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	33
4	37
9	41
14	46
19	49
23	51
28	53
33	54
38	55
226	298
250	302
276	305
57	58
62	57
67	57
71	56
76	55
12	54
85	54
90	53
95	53
100	53
105	52
109	51
114	49
119	47
124	48
129	48
133	48
138	47
143	47
148	46
152	44
157	43
162	42
167	40
171	35
176	33
181	31
186	31
190	29
195	28
200	28
205	26
210	25
214	25
219	24
224	24



ROUND NUMBER 423 CONTINUED

I	229	23
I	233	21
I	238	20
I	243	20
I	248	20
I	253	19
I	257	18
I	262	18
I	267	18
I	272	18
I	276	17
I	281	16
I	286	15
I	291	14
I	296	14
I	301	13
I	305	12
I	310	11
I	315	10
I		

ROUND NUMBER -- 422

PROJECTILE MASS (GM) --10.368

PROJECTILE TYPE --SPEER,JSP,38CAL

PROJECTILE VELOCITY (MPS) --437.01

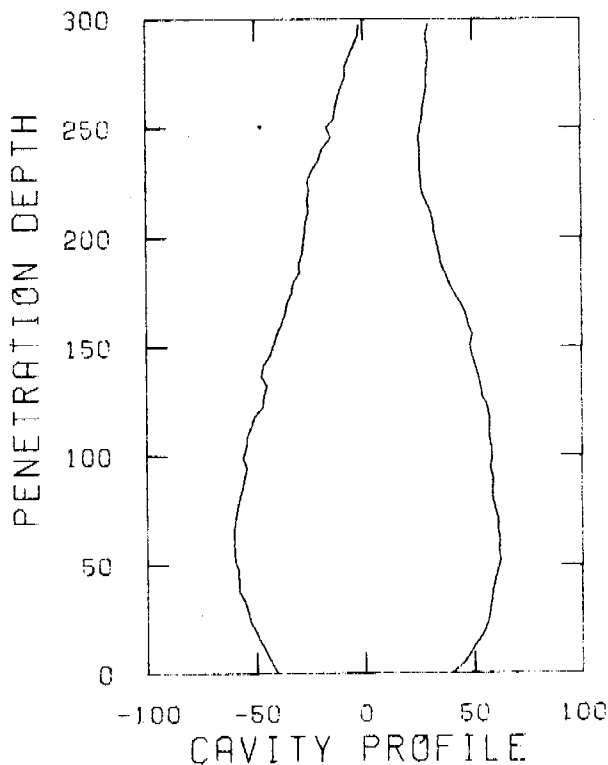
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
7	63	63
32	103	103
67	107	107
105	107	113
140	111	121
184	104	105
205	58	62

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	39
4	44
9	46
14	49
19	52
23	54
28	55
33	56
37	58
42	58
47	59
52	60
56	60
61	61
66	60
71	60
75	59
80	58
85	57
89	57
94	55
99	57
104	56
108	55
113	54
118	53
122	51
127	50
132	48
136	49
141	48
146	46
151	44
155	44
160	42
165	41
169	39
174	37
179	35
184	33
188	32
193	31
198	30
202	29
207	29
212	27
217	26
221	25



ROUND NUMBER 422 CONTINUED

I	226	25
I	231	24
I	236	22
I	240	22
I	245	19
I	250	21
I	254	20
I	259	20
I	264	19
I	268	19
I	273	18
I	278	18
I	283	18
I	288	16
I	292	15
I	297	15
I	302	14
I	306	13
I	311	12
I	315	11
I		

ROUND NUMBER -- 438

PROJECTILE MASS (GM) --10.368

PROJECTILE TYPE --SPEER,JSP,38CAL

PROJECTILE VELOCITY (MPS) --441.96

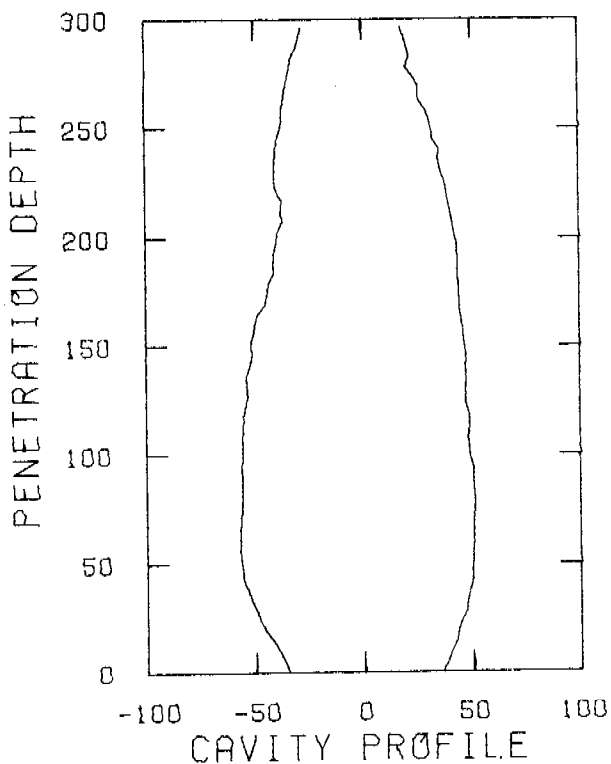
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	25	49
35	19	56
71	4	57
106	8	51
141	25	56
179	58	58
219	60	60

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	35
I 4	37
I 9	39
I 71	209
I 93	219
I 117	227
I 28	48
I 32	49
I 37	51
I 42	52
I 47	53
I 51	53
I 56	53
I 61	54
I 66	53
I 70	53
I 75	53
I 80	53
I 84	53
I 89	53
I 94	53
I 488	257
I 509	256
I 201	252
I 112	52
I 117	52
I 123	50
I 127	50
I 132	50
I 136	50
I 141	49
I 145	49
I 150	49
I 155	48
I 160	47
I 164	46
I 169	44
I 173	43
I 178	43
I 183	42
I 188	42
I 192	41
I 197	41
I 202	40
I 207	38
I 211	38
I 216	37
I 221	38



ROUND NUMBER 410 CONTINUED

I	225	38
I	230	37
I	235	37
I	239	37
I	244	35
I	249	34
I	254	33
I	258	32
I	263	31
I	268	30
I	273	28
I	277	26
I	282	27
I	286	25
I	291	23
I	296	22
I	301	21
I	305	20
I	310	18
I		

ROUND NUMBER -- 446

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --SPEER,SWC,38CAL

PROJECTILE VELOCITY (MPS) --345.03

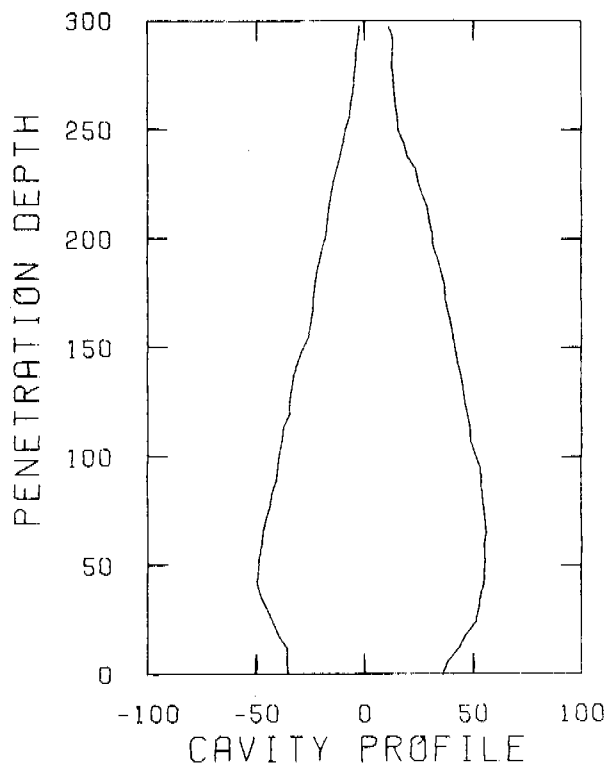
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-2	246	247
21	209	210
52	270	270
81	238	242
109	210	218
146	271	277
161	217	220

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	35
5	37
12	39
17	43
23	46
30	48
35	50
41	52
47	52
53	52
59	51
65	51
71	50
77	49
83	48
89	47
95	46
101	45
107	43
113	42
119	41
125	40
131	39
137	38
143	36
148	35
154	33
160	32
166	30
173	30
178	29
184	28
190	27
197	25
202	24
208	23
214	22
220	20
226	19
232	17
238	15
244	13
250	12
256	10
262	10
268	9
274	8
280	8



ROUND NUMBER 446 CONTINUED

I	285	8
I	291	7
I	297	6
I	303	6
I	309	6
I	315	3

ROUND NUMBER -- 447

PROJECTILE MASS (GM) -- 30.230

PROJECTILE TYPE -- SPEER, SWC, 30 CAL

PROJECTILE VELOCITY (MPS) -- 358.75

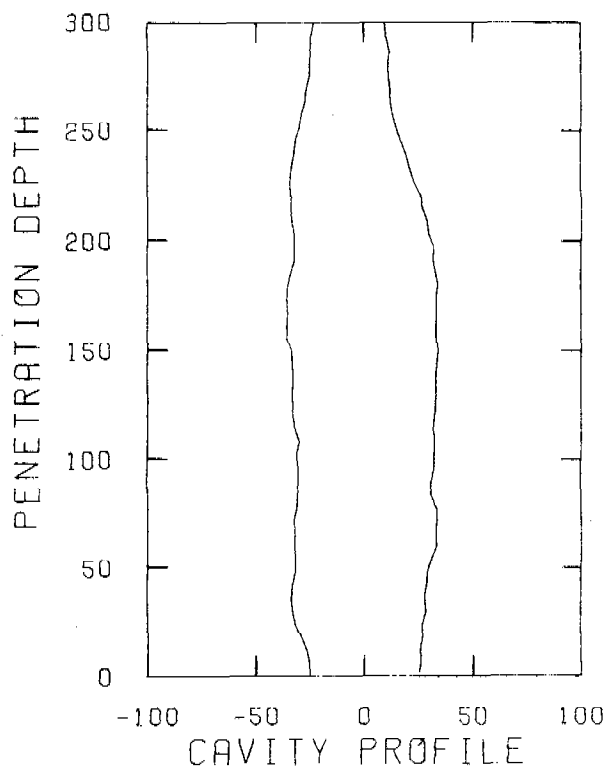
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	46	48
24	49	50
62	55	57
101	109	140
140	182	212
189	101	102
214	92	107

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	25
6	25
11	26
17	27
24	29
29	30
35	30
41	31
48	30
53	31
60	32
66	32
71	33
77	32
83	30
89	30
95	31
102	31
108	31
114	32
120	32
125	33
131	33
137	33
143	33
150	34
156	34
161	34
167	34
173	34
179	34
185	33
191	31
197	32
203	30
209	31
215	30
221	29
227	28
233	27
239	25
245	24
251	22
257	20
263	19
269	19
275	18
281	17



ROUND NUMBER 447 CONTINUED

I	287	18
I	293	17
I	299	16
I	305	15
I	311	14
I		

ROUND NUMBER -- 424

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --SPEER,SWC,38CAL

PROJECTILE VELOCITY (MPS) --373.38

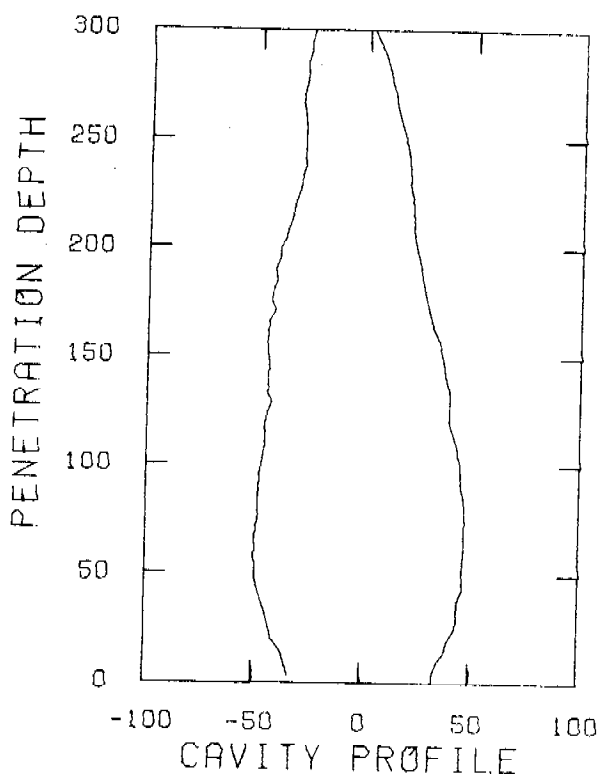
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	22	51
29	14	62
59	2	49
88	5	41
120	13	44
162	14	52
185	27	48

I CAVITY MEASUREMENTS

I	I	I
I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	32
I	4	33
I	9	35
I	14	37
I	19	40
I	24	42
I	28	44
I	33	44
I	38	45
I	43	47
I	47	48
I	52	47
I	57	48
I	61	48
I	66	48
I	71	48
I	76	47
I	81	47
I	85	47
I	90	46
I	95	46
I	99	45
I	104	44
I	109	44
I	114	43
I	119	42
I	123	42
I	128	41
I	133	42
I	138	41
I	142	40
I	147	40
I	152	39
I	156	39
I	161	38
I	166	37
I	171	35
I	176	35
I	180	34
I	185	33
I	190	33
I	195	31
I	199	31
I	204	29
I	209	28
I	213	27
I	219	27
I	223	26



ROUND NUMBER 414 CONTINUED

I	228	24
I	233	24
I	237	23
I	242	23
I	247	23
I	252	22
I	256	21
I	261	21
I	266	21
I	271	20
I	275	19
I	280	18
I	285	18
I	290	16
I	294	15
I	299	13
I	304	12
I	309	11

ROUND NUMBER -- 445

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --SPEER,SMC,38CAL

PROJECTILE VELOCITY (MPS) --420.93

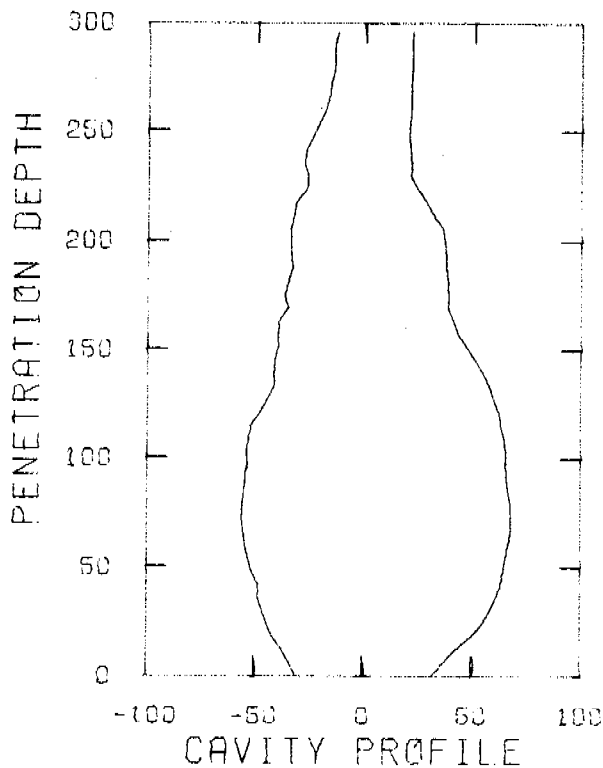
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESERVED AREA (MM ²)	CROSS-SECT AREA (MM ²)
0	67	67
31	100	100
66	105	106
101	106	124
135	93	125
179	118	122
198	118	122

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	31
6	35
12	40
17	45
24	49
30	52
36	55
42	56
48	58
54	59
60	60
66	62
72	62
78	62
84	61
90	60
96	59
102	59
108	58
114	57
120	55
127	52
132	49
139	48
145	46
151	43
157	41
163	40
169	36
175	37
181	36
187	35
193	35
199	35
205	34
211	32
217	29
223	25
229	23
235	24
241	23
248	21
253	20
260	19
266	18
272	18
278	17
284	17



ROUND NUMBER 445 CONTINUED

I	290	17
I	295	17
I	302	16
I	308	15
I	314	15
I	320	14
I	325	12
I		

ROUND NUMBER -- 444

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --SPEER,SMC,38CAL

PROJECTILE VELOCITY (MPS) --445.62

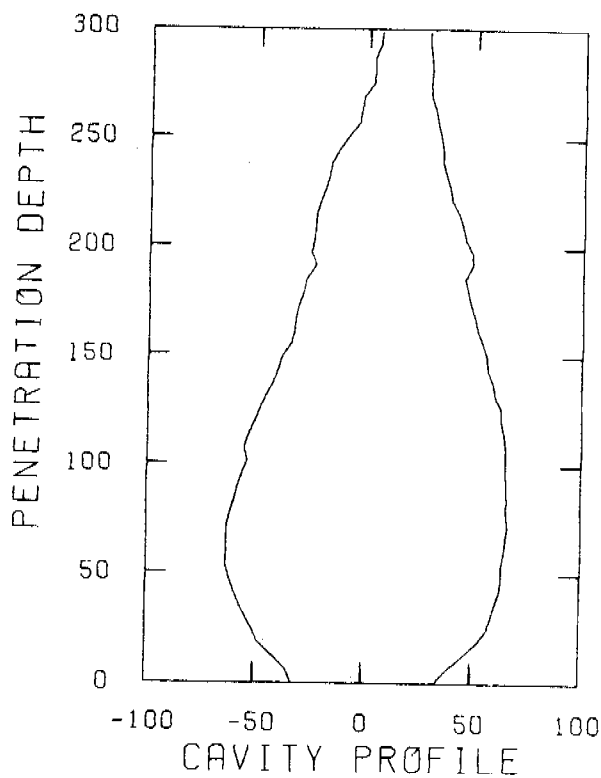
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
2	82	82
33	163	163
69	137	140
103	132	138
134	127	131
174	134	136
191	117	126

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	32
6	37
12	44
18	50
24	54
29	56
36	59
42	61
47	62
53	63
60	64
65	64
71	64
78	63
84	62
90	61
95	60
101	59
107	60
113	59
119	56
125	55
131	52
137	50
143	48
149	47
155	44
161	42
167	41
173	39
179	37
185	36
191	36
197	37
203	34
209	33
215	32
221	30
227	28
233	26
239	25
244	23
250	21
256	18
263	16
269	15
275	13
280	13



ROUND NUMBER 444 CONTINUED

I	286	12
I	292	11
I	298	10
I	304	10
I	310	9
I	316	7

ROUND NUMBER -- 433

PROJECTILE MASS (GM) -- 10.238

PROJECTILE TYPE -- SPEER, SWC, 38 CAL

PROJECTILE VELOCITY (MPS) -- 523.65

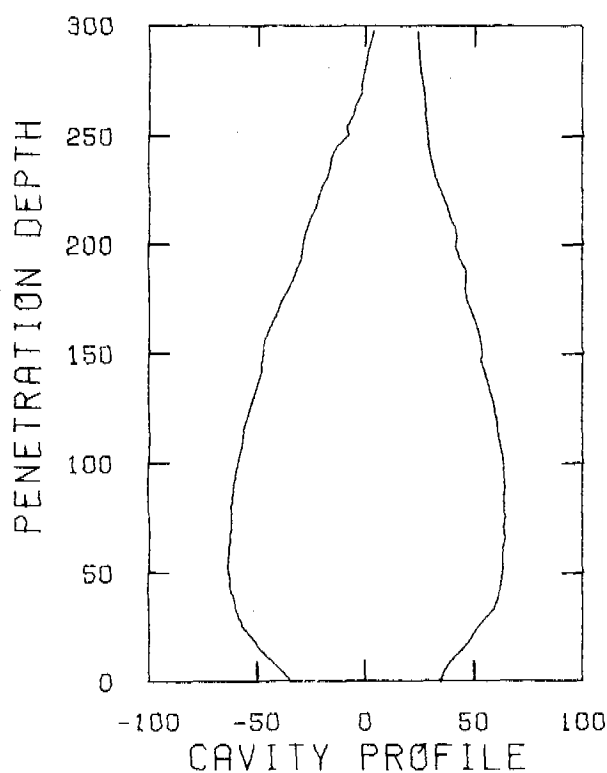
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
1	73	73
35	150	150
73	157	165
108	172	177
142	170	171
181	154	160
199	172	177

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
1	34
4	37
9	41
14	46
18	49
23	53
28	56
33	59
37	60
42	62
47	62
52	63
56	63
61	63
66	63
71	62
75	63
80	62
85	62
90	62
94	61
99	61
104	60
108	59
113	58
118	58
122	56
127	55
132	54
136	52
142	15
154	253
178	253
156	49
160	48
165	46
170	44
174	42
179	40
184	39
189	38
193	36
198	35
203	35
208	33
212	31
217	29
223	28



ROUND NUMBR 413 CONTINUED

I	227	26
I	231	24
I	236	23
I	240	22
I	245	20
I	250	18
I	255	18
I	259	16
I	264	15
I	269	14
I	274	13
I	278	12
I	283	12
I	288	11
I	293	10
I	297	9
I	302	9
I	307	7
I	311	7
I	316	6
I		

ROUND NUMBER -- 411

PROJECTILE MASS (GM) -- 9.590

PROJECTILE TYPE --SPEER,WC,38CAL

PROJECTILE VELOCITY (MPS) --178.31

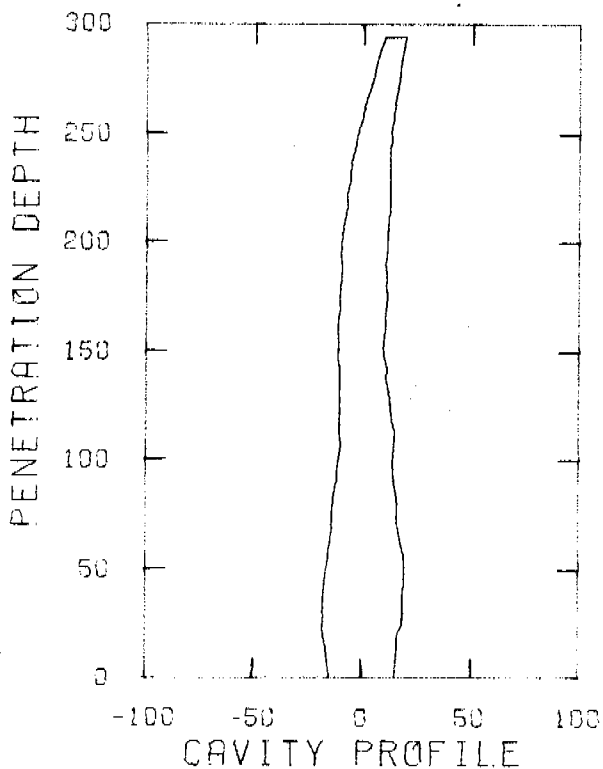
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	15
4	15
9	15
14	16
19	16
23	18
28	18
33	18
37	18
42	18
47	18
52	17
56	17
61	16
66	15
71	14
75	14
80	14
85	13
90	12
94	12
99	12
104	11
109	12
113	12
118	12
123	11
128	11
133	10
137	10
142	10
147	10
151	10
156	10
161	10
166	10
171	10
175	10
180	10
185	10
189	9
194	10
199	10
204	10
208	10
213	9
218	9
223	9



ROUND NUMBER 411 CONTINUED

I	227	9
I	232	9
I	237	8
I	241	8
I	246	8
I	251	7
I	256	7
I	260	7
I	265	6
I	270	6
I	275	5
I	280	5
I	284	5
I	289	5
I	294	4

ROUND NUMBER -- 407

PROJECTILE MASS (GR) -- 9.590

PROJECTILE TYPE --SPEER,WC,30CAL

PROJECTILE VELOCITY (MPS) --274.93

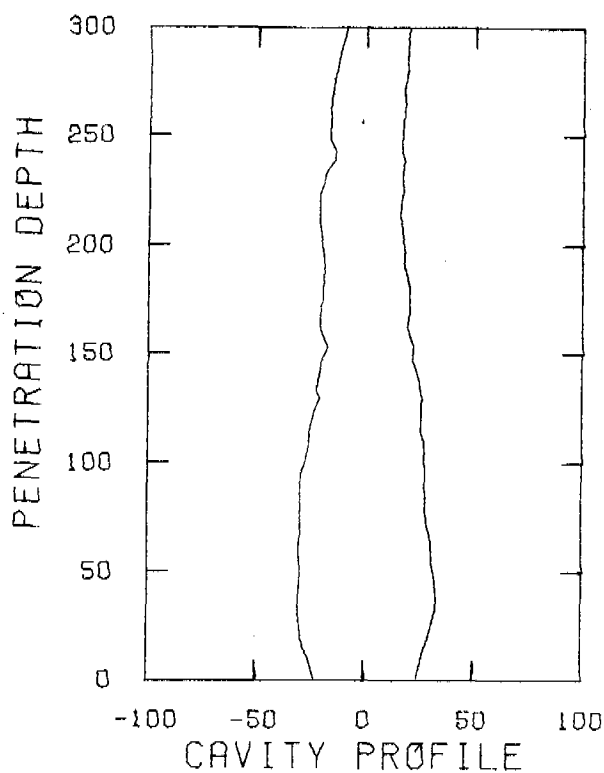
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	84	84
16	67	67
42	74	75
71	72	73
101	67	67
143	58	59
162	48	51

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	23
I 5	24
I 9	26
I 14	27
I 19	29
I 24	30
I 28	31
I 33	32
I 38	32
I 43	31
I 47	30
I 52	30
I 57	30
I 62	30
I 67	29
I 71	28
I 76	28
I 81	28
I 86	28
I 90	28
I 95	28
I 100	27
I 105	26
I 109	26
I 114	25
I 119	24
I 124	24
I 128	23
I 133	23
I 138	22
I 143	21
I 147	20
I 152	19
I 157	19
I 162	19
I 166	20
I 171	20
I 175	19
I 180	19
I 185	18
I 190	18
I 195	18
I 199	18
I 204	18
I 209	18
I 214	18
I 218	18
I 224	19



ROUND NUMBER 407 CONTINUED

I	228	18
I	233	17
I	238	16
I	242	15
I	247	16
I	252	16
I	257	16
I	261	16
I	266	17
I	271	16
I	276	16
I	280	16
I	285	15
I	290	15
I	294	14
I	299	14
I	304	13
I	309	13
I	314	12
I		

ROUND NUMBER -- 409

PROJECTILE MASS (GM) -- 9.590

PROJECTILE TYPE --SPEER,WC,30CAL

PROJECTILE VELOCITY (MPS) --287.12

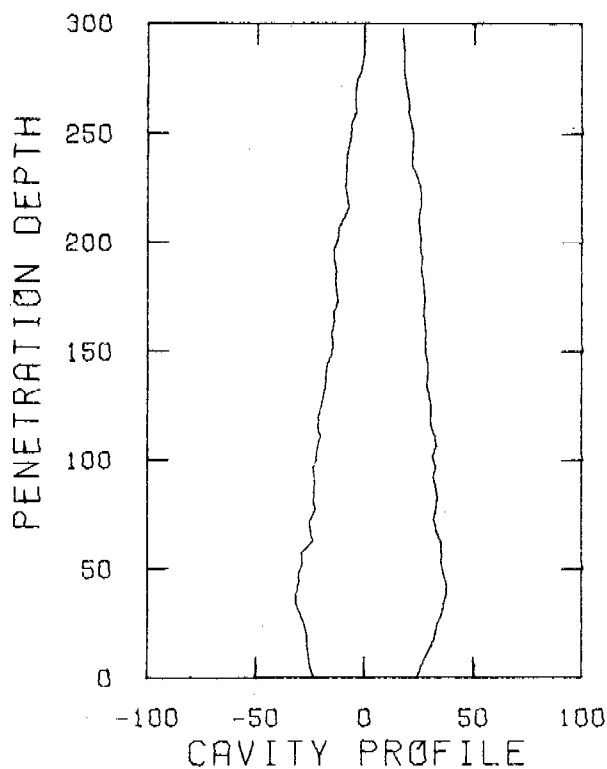
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-6	74	74
17	79	79
43	90	90
75	90	92
105	89	90
147	101	101
168	87	87

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	23
5	25
9	26
14	28
19	29
24	30
29	32
33	34
38	34
43	34
48	33
53	31
57	32
62	29
67	28
72	28
77	27
81	28
86	27
91	27
96	27
101	26
105	27
110	26
115	25
120	25
125	24
130	23
134	23
139	23
144	22
149	21
153	20
158	21
163	20
168	20
173	19
178	19
182	19
187	19
192	20
197	19
201	18
206	18
211	17
216	16
221	16
225	16



ROUND NUMBER 409 CONTINUED

I	230	15
I	235	14
I	240	14
I	245	14
I	250	14
I	254	13
I	259	11
I	264	11
I	269	11
I	273	10
I	278	9
I	283	9
I	288	8
I	293	8
I	297	8
I	303	8
I	307	7
I	312	7
I	317	7
I	321	6
I		

ROUND NUMBER -- 443

PROJECTILE MASS (GM) -- 9.590

PROJECTILE TYPE --SPEER,WC,38CAL

PROJECTILE VELOCITY (MPS) --299.92

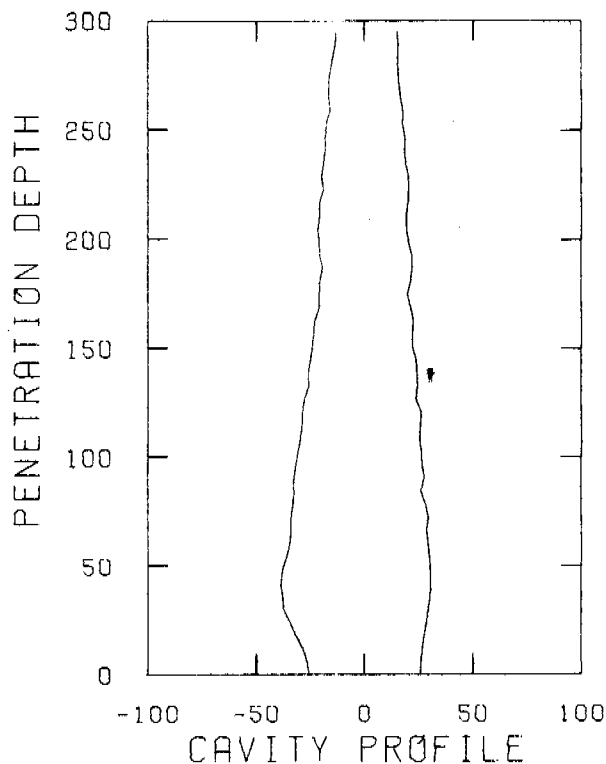
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	72	72
20	61	61
49	73	74
82	63	63
115	69	69
160	70	70
181	74	74

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	25
I	6	26
I	12	27
I	18	29
I	24	31
I	30	33
I	36	34
I	42	34
I	48	34
I	54	32
I	60	31
I	66	31
I	72	31
I	78	30
I	84	29
I	90	29
I	97	28
I	102	28
I	108	27
I	114	27
I	121	27
I	126	25
I	132	24
I	138	24
I	144	24
I	150	22
I	156	22
I	162	22
I	169	20
I	174	20
I	180	20
I	187	20
I	193	21
I	199	20
I	204	20
I	211	19
I	217	20
I	223	19
I	229	20
I	234	18
I	241	18
I	247	18
I	252	17
I	259	16
I	265	16
I	271	16
I	277	15
I	283	14



ROUND NUMBER 443 CONTINUED

I	289	14
I	295	13
I	301	13
I	307	11
I	313	11
I	319	10

ROUND NUMBER -- 442

PROJECTILE MASS (GM) -- 9.590

PROJECTILE TYPE --SPEER,WC,30CAL

PROJECTILE VELOCITY (MPS) --332.54

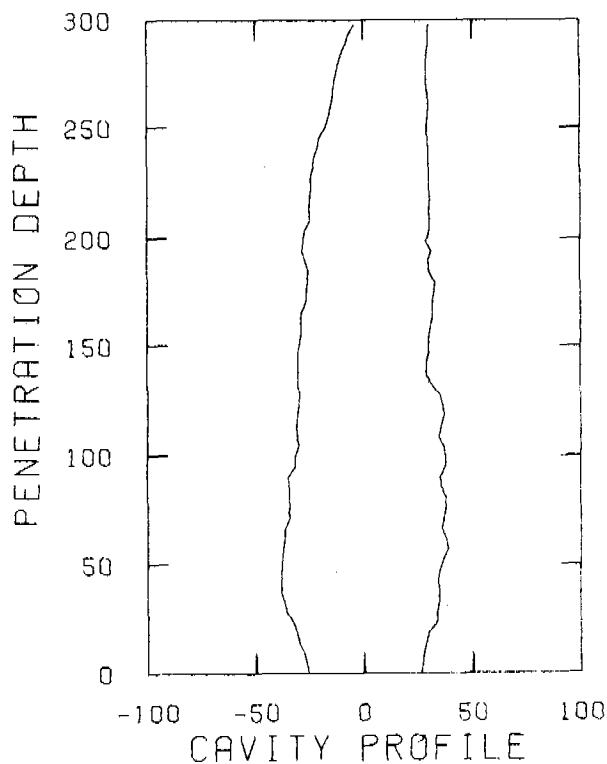
PROJECTILE DIAMETER (CM) -- 9.048

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	62	62
25	63	63
56	55	57
92	54	55
128	66	66
173	98	113
196	91	112

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	25
I	4	26
I	9	27
I	14	29
I	19	30
I	23	33
I	28	34
I	33	35
I	37	36
I	42	36
I	47	36
I	52	37
I	56	38
I	61	37
I	66	36
I	70	35
I	75	36
I	80	36
I	85	35
I	89	35
I	94	34
I	99	34
I	104	33
I	108	32
I	113	33
I	118	33
I	123	33
I	128	32
I	132	30
I	137	29
I	141	29
I	146	30
I	151	29
I	156	29
I	160	30
I	165	30
I	170	29
I	175	29
I	179	29
I	184	27
I	189	28
I	194	29
I	198	28
I	203	28
I	208	27
I	213	27
I	217	27
I	222	27



ROUND NUMBER 442 CONTINUED

I	226	27
I	233	26
I	236	26
I	241	25
I	245	24
I	250	23
I	255	22
I	260	22
I	265	21
I	269	21
I	274	20
I	279	20
I	283	19
I	288	19
I	293	18
I	298	17
I	302	15
I	307	14
I	312	13
I	316	13
I	321	13
I	325	11
I		

ROUND NUMBER -- 430

PROJECTILE MASS (GK) -- 9.590

PROJECTILE TYPE --SPEER,WC,30CAL

PROJECTILE VELOCITY (MPS) --353.87

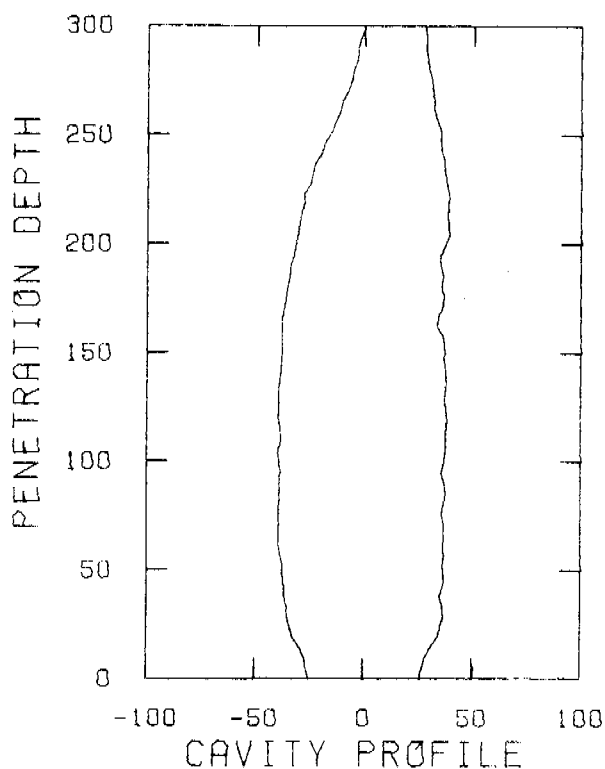
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-1	68	68
43	59	59
60	75	75
98	59	64
148	33	39
178	81	83
199	68	70

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	25
4	26
9	27
14	30
19	33
23	34
28	36
33	36
38	36
42	37
48	37
52	37
57	37
61	38
66	38
71	38
76	37
80	37
85	38
90	38
95	37
99	38
104	38
109	38
113	38
118	39
123	38
128	38
133	38
137	38
142	37
147	37
152	37
156	37
161	35
166	35
170	36
175	36
180	35
185	35
190	34
194	33
199	34
204	34
208	34
213	33
218	33
223	33



ROUND NUMBER 410 CONTINUED

I	227	31
I	232	30
I	237	29
I	242	27
I	246	26
I	251	25
I	256	23
I	260	21
I	265	20
I	270	19
I	275	18
I	280	16
I	284	15
I	289	15
I	294	14
I	299	13
I	303	12
I	308	11
I	313	10
I	318	10
I	322	9

ROUND NUMBER -- 406

PROJECTILE MASS (GM) -- 9.590

PROJECTILE TYPE --SPEER,WC,30CAL

PROJECTILE VELOCITY (MPS) --408.43

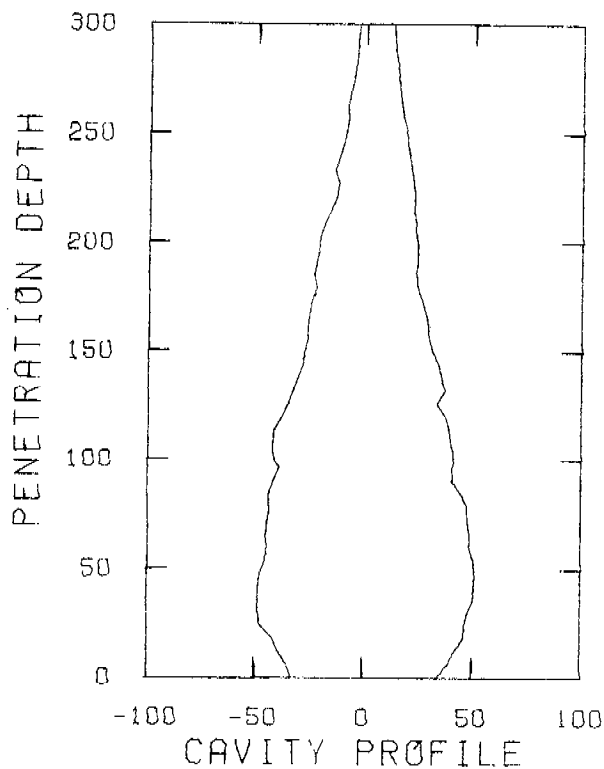
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-1	145	145
28	77	77
62	94	95
96	88	88
127	99	100
167	85	88
186	92	93

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	33
6	37
12	40
17	43
24	47
30	48
36	49
41	49
47	49
53	48
60	46
65	46
71	46
77	45
83	44
89	41
95	39
101	41
107	40
113	40
119	37
125	34
131	34
137	32
143	31
149	29
155	27
161	27
167	26
173	25
179	22
185	23
191	23
197	22
203	21
209	20
215	18
221	17
227	16
233	17
239	16
245	14
251	13
257	12
263	12
269	11
275	10
281	9



ROUND NUMBER 406 CONTINUED

I	287	8
I	293	8
I	298	7
I	304	7
I	310	6
I	316	5

ROUND NUMBER -- 441

PROJECTILE MASS (GM) -- 9.590

PROJECTILE TYPE --SPEER,WC,30CAL

PROJECTILE VELOCITY (MPS) --423.06

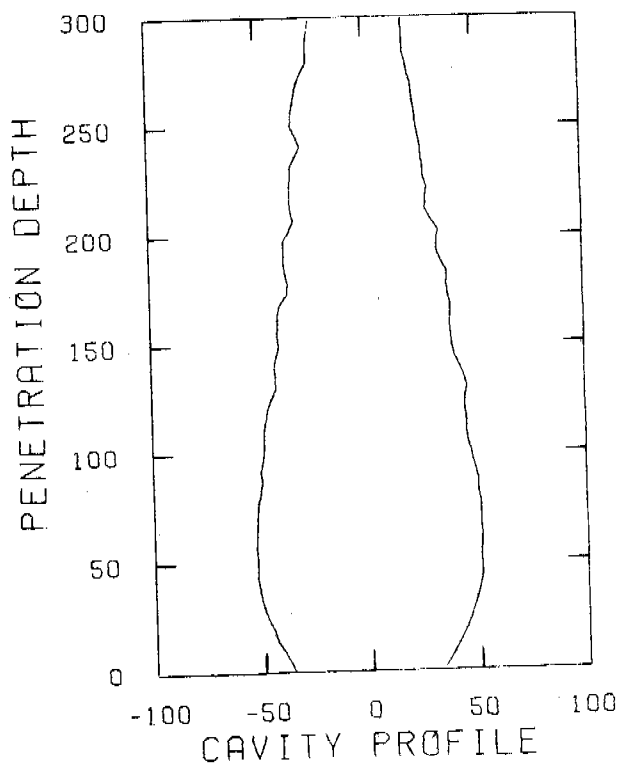
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	85	85
32	77	77
71	87	87
112	70	70
152	79	79
203	79	80
229	77	77

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	34
I	4	37
I	9	39
I	14	42
I	19	44
I	24	47
I	29	48
I	33	49
I	38	50
I	43	52
I	48	51
I	52	51
I	57	52
I	62	52
I	67	51
I	72	51
I	77	51
I	82	50
I	86	49
I	91	49
I	96	48
I	101	47
I	105	46
I	110	46
I	115	46
I	120	45
I	125	44
I	130	44
I	135	43
I	139	42
I	144	41
I	149	39
I	154	39
I	158	39
I	163	39
I	168	39
I	173	36
I	178	36
I	183	37
I	187	36
I	192	35
I	197	35
I	202	34
I	206	31
I	211	31
I	216	31
I	221	31
I	226	30



ROUND NUMBER 441 CONTINUED

I	231	30
I	236	28
I	240	27
I	245	28
I	250	28
I	255	28
I	259	27
I	264	26
I	269	26
I	274	24
I	279	22
I	283	22
I	288	22
I	293	21
I	298	21
I	303	19
I	308	18
I	312	18
I	317	18
I	322	18
I		

ROUND NUMBER -- 412

PROJECTILE MASS (GM) -- 9.590

PROJECTILE TYPE --SPEER,WC,38CAL

PROJECTILE VELOCITY (MPS) --462.38

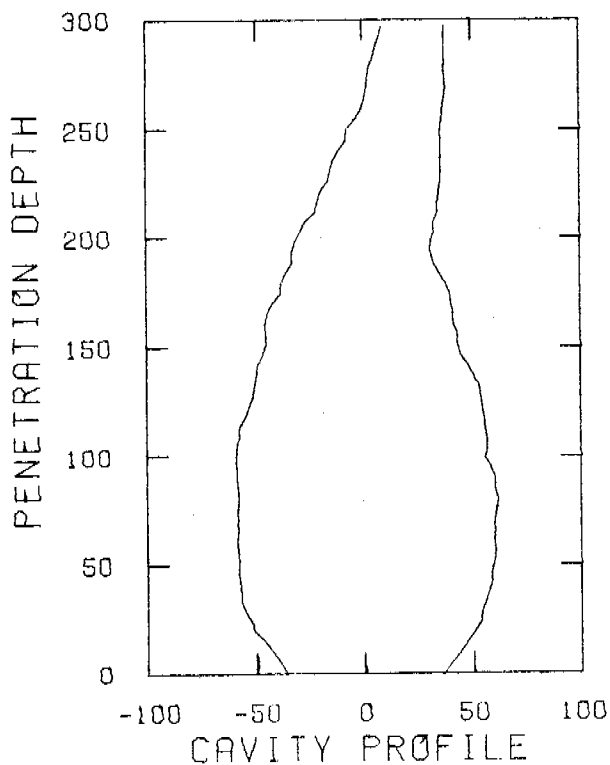
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
3	83	83
39	95	97
75	112	113
113	105	107
148	110	114
190	109	121
210	114	130

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	36
I	4	39
I	9	43
I	14	46
I	19	50
I	23	53
I	28	54
I	32	56
I	37	57
I	42	58
I	47	58
I	52	59
I	56	59
I	61	59
I	66	59
I	71	59
I	75	59
I	80	60
I	85	59
I	89	59
I	94	58
I	99	57
I	103	58
I	108	57
I	113	56
I	118	55
I	122	53
I	634	5
I	321	257
I	7	7
I	141	48
I	146	45
I	151	44
I	155	44
I	160	43
I	165	42
I	169	41
I	174	38
I	179	37
I	183	35
I	188	32
I	193	31
I	198	31
I	202	30
I	207	29
I	1058	140
I	1081	137
I	93	102



ROUND NUMBER 412 CONTINUED

I	226	25
I	231	25
I	236	24
I	240	23
I	245	21
I	250	18
I	254	19
I	259	18
I	264	18
I	268	18
I	273	17
I	278	17
I	283	16
I	287	15
I	292	15
I	296	14
I	301	13
I	306	12
I	311	11
I	316	11
I	320	14

ROUND NUMBER -- 440

PROJECTILE MASS (GM) -- 9.590

PROJECTILE TYPE --SPEER,WC,38CAL

PROJECTILE VELOCITY (MPS) --494.69

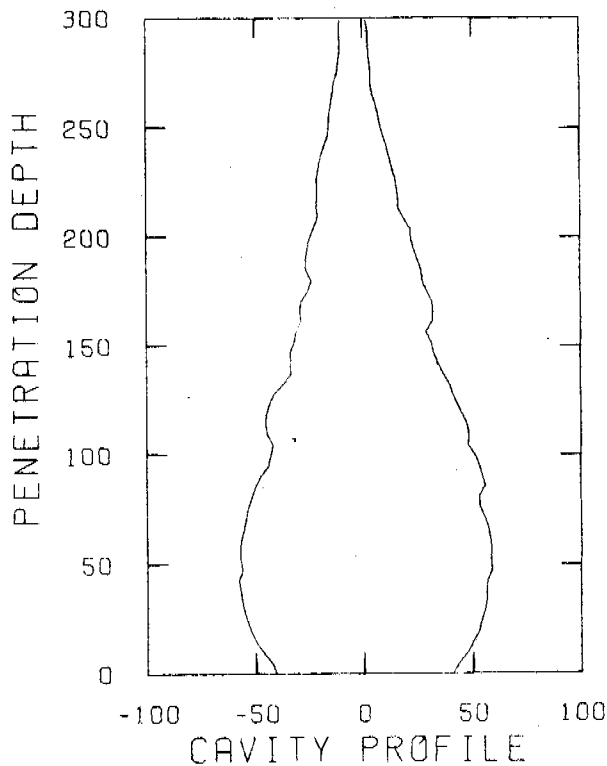
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
1	80	81
36	84	85
71	85	85
107	81	81
138	73	73
176	66	67
193	75	76

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	40
I	4	43
I	9	47
I	14	50
I	18	52
I	23	53
I	28	55
I	33	56
I	38	56
I	42	57
I	47	57
I	52	57
I	56	57
I	61	57
I	66	56
I	71	54
I	75	53
I	80	52
I	85	52
I	90	50
I	94	48
I	99	46
I	104	44
I	109	46
I	114	46
I	118	45
I	123	43
I	128	40
I	133	37
I	137	35
I	142	33
I	147	32
I	151	31
I	156	29
I	161	30
I	166	30
I	170	30
I	175	27
I	180	25
I	184	26
I	189	25
I	194	24
I	199	23
I	204	22
I	208	19
I	213	18
I	218	18
I	223	18



ROUND NUMBER 440 CONTINUED

I	227	17
I	232	16
I	237	15
I	241	14
I	246	12
I	251	11
I	256	10
I	260	10
I	265	9
I	270	8
I	275	7
I	279	7
I	284	6
I	289	6
I	294	6
I	298	5
I	303	5
I	308	5
I	312	5
I		

ROUND NUMBER -- 439

PROJECTILE MASS (GM) -- 9.590

PROJECTILE TYPE --SPEER,WC,38CAL

PROJECTILE VELOCITY (MPS) --514.81

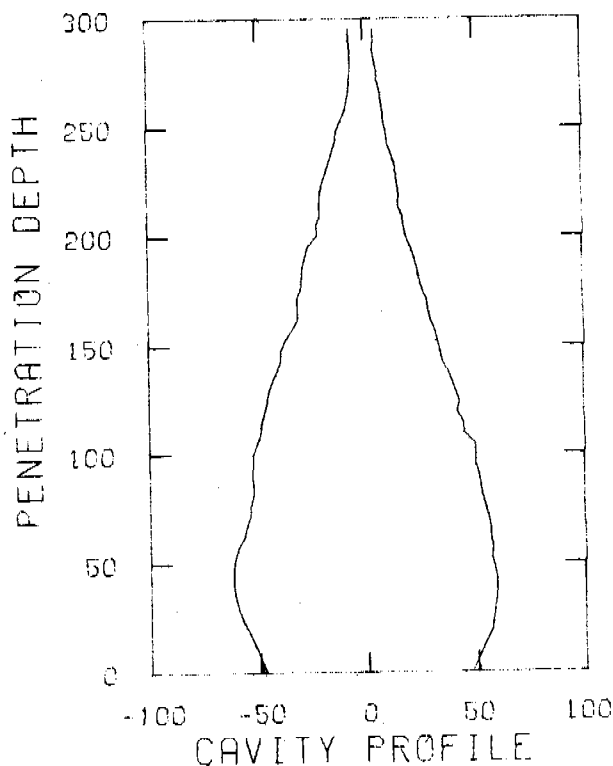
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
4	64	64
38	92	92
73	93	93
108	95	96
137	94	95
172	87	88
187	85	85

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	47
I	4	49
I	9	51
I	14	53
I	19	55
I	23	57
I	28	58
I	33	59
I	38	60
I	42	60
I	47	60
I	52	59
I	57	58
I	62	56
I	66	56
I	71	54
I	76	53
I	81	52
I	86	52
I	90	52
I	95	51
I	100	51
I	104	49
I	109	46
I	114	46
I	119	44
I	123	44
I	128	42
I	133	41
I	138	39
I	142	37
I	147	36
I	152	34
I	157	32
I	161	30
I	166	29
I	171	29
I	176	27
I	180	26
I	185	26
I	190	24
I	195	23
I	200	20
I	204	20
I	209	18
I	214	18
I	219	18
I	224	17



ROUND NUMBER 439 CONTINUED

I	228	16
I	233	15
I	238	13
I	242	11
I	247	11
I	252	10
I	257	8
I	261	7
I	266	6
I	271	6
I	276	5
I	281	5
I	285	5
I	290	5
I	295	5
I	300	3
I		

ROUND NUMBER -- 438

PROJECTILE MASS (GM) -- 9.590

PROJECTILE TYPE --SPEER,WQ,38CAL

PROJECTILE VELOCITY (MPS) --520.90

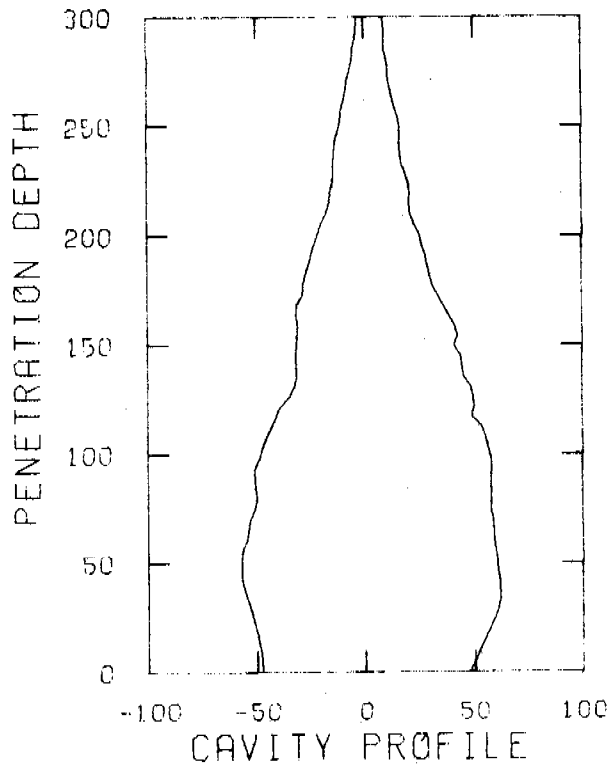
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
4	95	96
37	90	90
74	112	112
109	85	87
140	74	75
178	105	106
195	111	112

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	47
5	49
9	50
14	52
18	53
23	55
28	56
32	58
37	58
42	59
47	58
51	58
56	58
60	56
65	56
70	55
74	54
79	53
84	54
89	54
93	54
98	53
103	51
107	50
112	48
116	45
121	44
126	42
131	40
135	38
140	38
144	37
149	36
154	36
159	36
163	35
168	33
172	31
177	29
182	28
187	27
191	26
196	24
201	23
205	21
210	19
215	18
219	18



ROUND NUMBER 438 CONTINUED

I	224	17
I	229	16
I	233	15
I	238	15
I	243	14
I	247	14
I	252	13
I	257	12
I	262	11
I	266	10
I	271	9
I	276	8
I	280	7
I	285	7
I	289	6
I	294	6
I	299	5
I	304	5
I	308	5
I	313	4
I		

ROUND NUMBER -- 405

PROJECTILE MAS (GM) -- 9.590

PROJECTILE TYPE --SPEER,WC,30CAL

PROJECTILE VELOCITY (MPS) --547.12

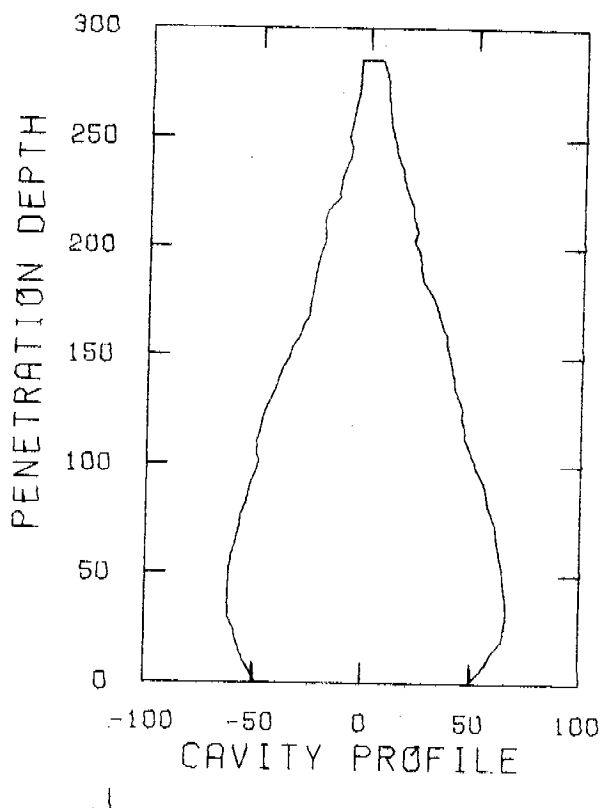
PROJECTILE DIAMETER (CM) -- 9.048

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-15	89	89
-7	222	223
40	93	94
82	86	87
116	82	83
157	132	135
174	88	89

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	48
5	53
9	55
14	58
19	61
24	62
29	63
34	64
39	64
43	63
48	63
53	62
58	61
63	60
67	59
72	58
77	57
82	55
87	54
91	53
96	51
101	49
106	48
111	47
115	47
120	45
125	45
130	42
135	41
140	40
144	38
149	36
154	35
159	33
164	31
169	29
174	28
178	27
183	25
188	24
193	23
197	22
202	20
207	20
212	20
217	19
222	16
226	14



ROUND NUMBER 405 CONTINUED

1	231	13
1	236	12
1	241	10
1	246	10
1	251	9
1	255	8
1	260	8
1	265	7
1	270	6
1	275	6
1	280	5
1	285	4

ROUND NUMBER -- 465

PROJECTILE MASS (GM) --12.960

PROJECTILE TYPE --SPEER, JHP, 41MAG

PROJECTILE VELOCITY (MPS) --315.77

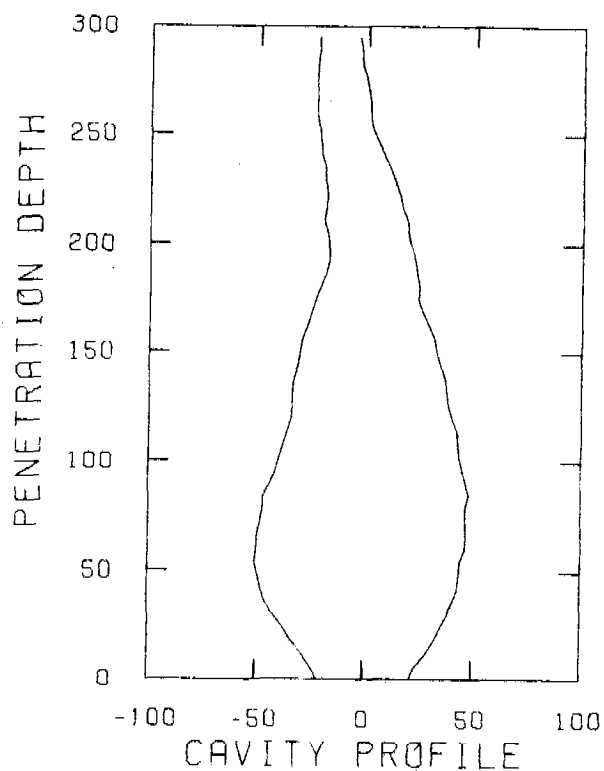
PROJECTILE DIAMETER (CM) -- 10.414

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-6	87	87
15	150	150
43	138	138
71	135	136
98	148	151
137	162	164
153	136	136

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	21
5	23
11	28
17	32
24	36
30	40
36	43
42	45
48	46
54	47
60	48
66	48
72	47
78	46
84	47
89	45
96	43
102	41
108	40
114	39
120	36
126	35
132	35
138	34
144	32
150	31
156	30
162	27
168	25
174	23
180	22
186	20
192	19
198	18
204	18
210	19
216	17
222	16
228	16
234	14
240	14
246	13
252	12
258	12
264	12
270	11
276	11
282	10



ROUND NUMBER 465 CONTINUED

I	288	9
I	294	9
I	300	9
I	306	8
I	312	8
I	318	7
I	324	6
I		

ROUND NUMBER -- 468

PROJECTILE MASS (GM) --12.960

PROJECTILE TYPE --SPEER,JHP,43MAG

PROJECTILE VELOCITY (MPS) --333.45

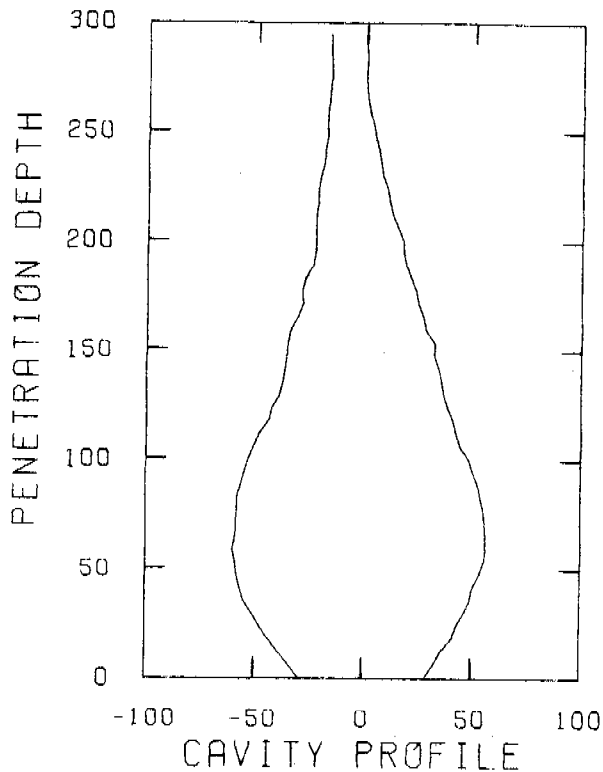
PROJECTILE DIAMETER (CM) -- 10.434

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
4	87	87
20	177	177
49	182	183
77	173	175
105	167	168
140	181	181
156	157	157

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	28
I	6	33
I	12	37
I	17	42
I	23	45
I	29	48
I	35	52
I	41	53
I	47	55
I	53	57
I	59	58
I	65	57
I	71	57
I	76	56
I	82	55
I	89	54
I	94	52
I	100	50
I	106	47
I	112	45
I	118	42
I	124	40
I	130	37
I	135	36
I	141	35
I	147	33
I	153	33
I	159	31
I	165	28
I	171	26
I	177	26
I	183	24
I	189	23
I	194	20
I	200	19
I	206	18
I	212	17
I	218	16
I	224	15
I	230	14
I	236	12
I	242	12
I	248	10
I	254	10
I	259	9
I	265	8
I	271	8
I	277	7



ROUND NUMBER 468 CONTINUED

I	283	8
I	289	8
I	295	7
I	301	7
I	307	5
I		

ROUND NUMBER -- 464

PROJECTILE MASS (GM) --12.960

PROJECTILE TYPE --SPEER,JHP,4JWAG

PROJECTILE VELOCITY (MPS) --353.57

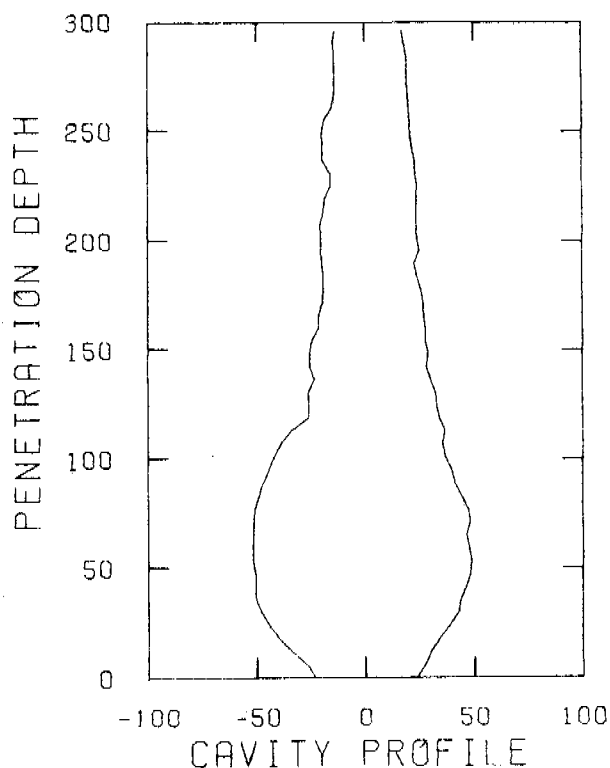
PROJECTILE DIAMETER (CM) -- 10.414

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-1	94	94
24	189	189
58	189	190
92	72	72
128	74	75
179	72	72
202	73	75

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	23
I	5	26
I	12	32
I	17	36
I	23	41
I	29	45
I	35	47
I	41	48
I	47	49
I	53	50
I	59	49
I	65	49
I	71	49
I	76	49
I	83	46
I	88	44
I	94	42
I	100	39
I	106	37
I	112	35
I	118	30
I	124	29
I	130	29
I	136	26
I	142	26
I	148	27
I	154	26
I	160	24
I	165	24
I	171	22
I	177	22
I	183	21
I	189	21
I	195	22
I	201	21
I	207	22
I	213	21
I	219	20
I	225	19
I	230	19
I	237	21
I	243	20
I	248	20
I	254	19
I	260	17
I	266	16
I	272	16
I	278	16



ROUND NUMBER 464 CONTINUED

I	284	16
I	290	16
I	296	15
I	302	14
I	307	14
I	313	14
I	319	13
I		

ROUND NUMBER -- 467

PROJECTILE MASS (GM) --12.960

PROJECTILE TYPE --SPEER,JHP,43MAG

PROJECTILE VELOCITY (MPS) --358.14

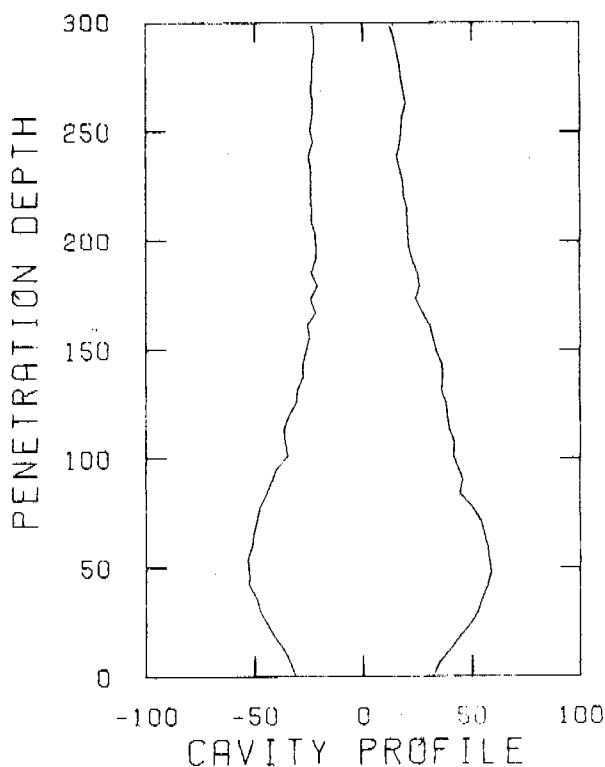
PROJECTILE DIAMETER (CM) -- 10.434

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-5	100	100
22	187	188
57	94	94
92	87	87
128	59	61
178	84	91
201	56	77

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	31
6	34
12	38
18	42
24	47
30	50
36	52
42	55
47	55
53	55
59	54
65	53
71	51
77	48
84	44
89	44
95	41
101	38
107	39
113	38
119	36
125	34
131	33
137	32
143	31
149	29
155	28
161	28
167	24
173	24
179	23
185	24
191	22
197	21
203	21
209	22
215	21
221	21
227	21
233	20
239	20
245	20
250	20
256	20
262	21
269	21
274	20
280	19



ROUND NUMBER 467 CONTINUED

I	286	18
I	293	18
I	298	17
I	304	17
I	310	16
I		

ROUND NUMBER -- 463

PROJECTILE MASS (GM) -- 12.960

PROJECTILE TYPE -- SPEER, JHP, 43 MAG

PROJECTILE VELOCITY (MPS) -- 397.76

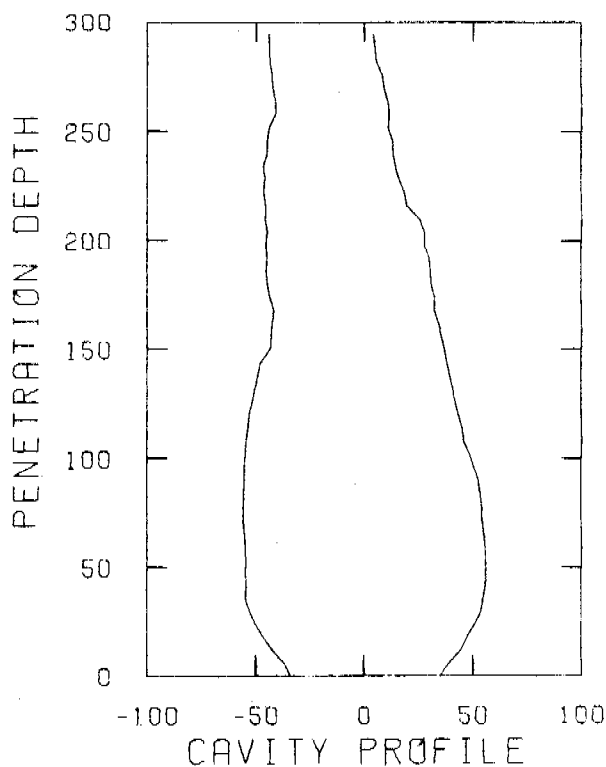
PROJECTILE DIAMETER (CM) -- 10.434

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
4	87	88
34	172	176
70	149	149
108	138	143
145	187	191
196	175	175
219	164	165

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	34
5	37
11	43
18	47
24	50
29	53
35	54
42	55
47	55
53	55
60	55
66	55
71	55
77	54
83	54
90	53
95	52
101	51
107	50
114	49
120	47
126	46
132	45
137	44
144	42
150	39
156	38
162	38
168	36
174	37
180	37
186	37
192	37
198	36
204	36
210	35
216	32
222	32
228	30
234	30
240	28
246	28
251	27
258	26
264	25
270	25
276	25
282	24



ROUND NUMBER 463 CONTINUED

I	288	24
I	294	24
I	300	22
I	306	21
I	312	20
I	318	19

ROUND NUMBER -- 466

PROJECTILE MASS (GM) --12.960

PROJECTILE TYPE --SPEER,JHP,43WAG

PROJECTILE VELOCITY (MPS) --436.97

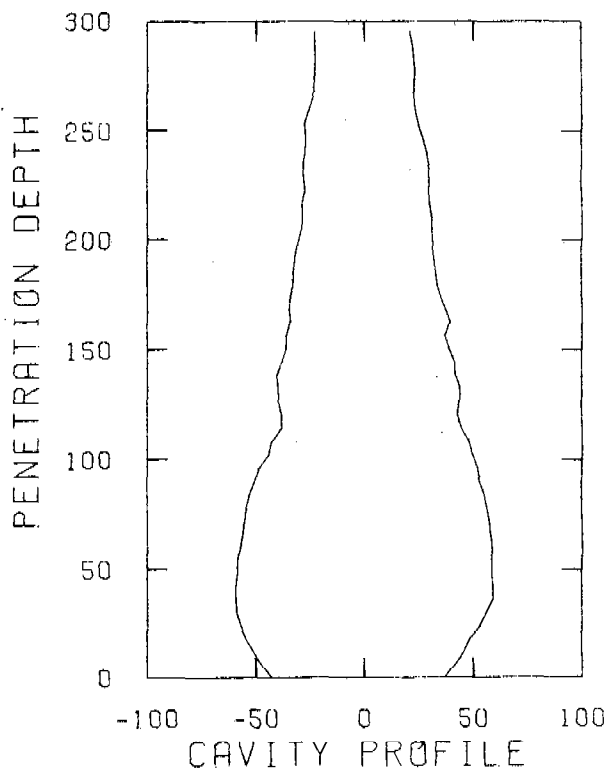
PROJECTILE DIAMETER (CM) -- 10.434

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	109	110
30	213	213
68	87	88
108	60	61
148	70	71
203	61	76
227	67	73

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	39
6	44
11	48
18	51
24	54
30	57
36	59
42	59
47	58
54	58
60	57
66	56
72	56
78	55
84	53
90	51
96	50
102	46
108	45
114	41
120	40
126	41
132	41
138	41
144	39
150	37
156	36
162	36
168	35
175	34
180	32
186	32
192	31
198	30
205	29
211	29
217	29
223	28
228	28
235	28
241	27
247	26
253	26
259	24
265	23
271	22
277	22
283	22



ROUND NUMBER 466 CONTINUED

I	289	22
I	295	21
I	301	21
I	307	19
I	313	19
I		

ROUND NUMBER -- 462

PROJECTILE MASS (GM) --14.256

PROJECTILE TYPE --SPEER,JSP,43MAG

PROJECTILE VELOCITY (MPS) --290.17

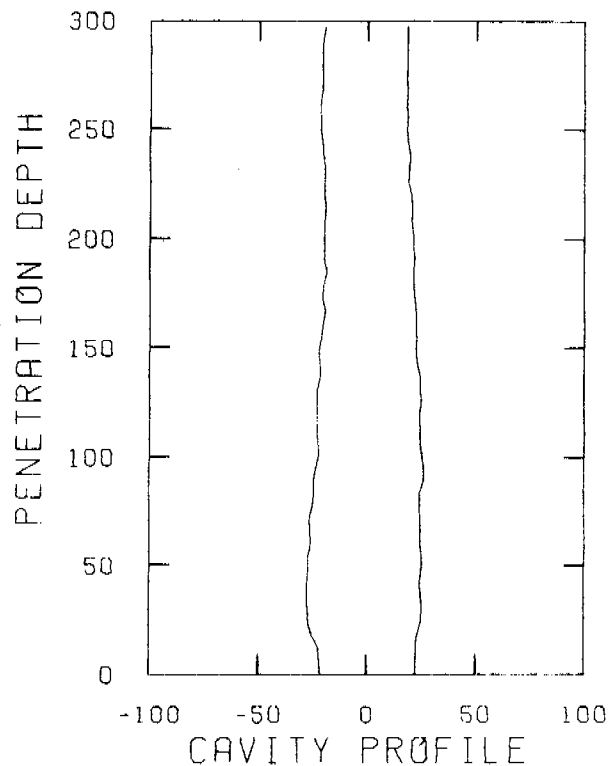
PROJECTILE DIAMETER (CM) -- 10.434

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-9	73	73
16	66	74
46	73	74
81	66	67
117	62	86
170	65	65
196	74	74

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	21
I	5	22
I	12	22
I	17	24
I	23	25
I	29	26
I	35	26
I	41	25
I	47	26
I	53	26
I	59	25
I	65	25
I	71	25
I	77	24
I	83	24
I	89	25
I	95	24
I	101	23
I	107	23
I	113	23
I	119	23
I	125	24
I	131	23
I	137	22
I	142	22
I	148	22
I	154	23
I	160	21
I	166	20
I	172	21
I	178	20
I	184	19
I	190	20
I	196	20
I	202	20
I	208	19
I	214	19
I	220	20
I	226	19
I	232	19
I	238	20
I	244	19
I	250	19
I	255	20
I	261	19
I	268	19
I	273	19
I	279	19



ROUND NUMBER 462 CONTINUED

I	285	19
I	291	19
I	297	18
I	303	18
I	309	17
I	315	17
I	320	16
I		

ROUND NUMBER -- 470

PROJECTILE MASS (GM) --14.256

PROJECTILE TYPE --SPEER,JSP,43MAG

PROJECTILE VELOCITY (MPS) --395.89

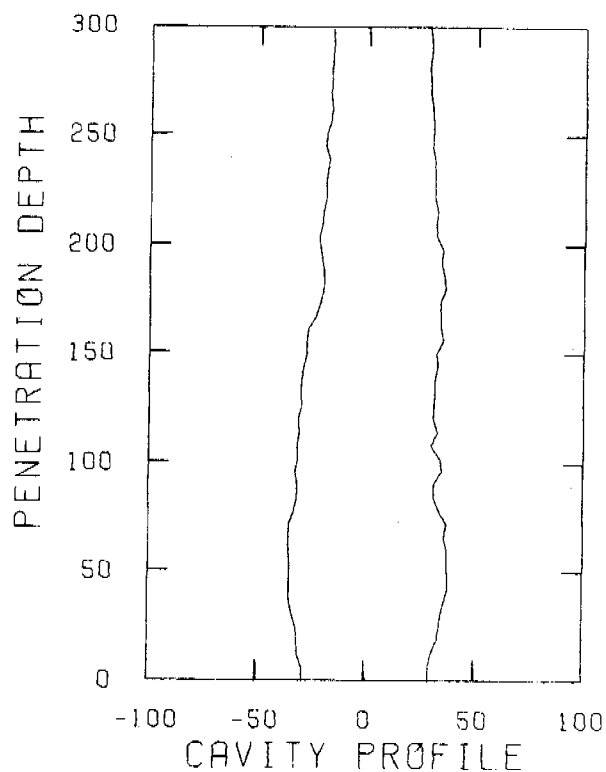
PROJECTILE DIAMETER (CM) -- 10.414

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	61	61
26	70	70
61	75	75
100	70	70
139	67	67
197	75	75
225	74	75

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	28
6	29
11	30
18	32
23	33
29	34
36	35
41	36
47	36
53	36
60	36
65	35
71	36
77	33
83	31
89	31
95	33
101	32
107	30
113	31
119	31
125	30
131	30
137	30
143	30
149	29
155	31
161	30
167	28
173	27
179	28
185	27
191	27
197	28
203	27
209	26
215	26
221	24
227	24
233	24
239	24
245	24
251	24
256	23
263	22
269	22
274	22
281	22



ROUND NUMBER 470 CONTINUED

I	287	22
I	293	22
I	299	22
I	304	22
I	310	21
I		

ROUND NUMBER -- 463

PROJECTILE MASS (GM) --14.256

PROJECTILE TYPE --SPEER, JSP, 41HAG

PROJECTILE VELOCITY (MPS) --357.04

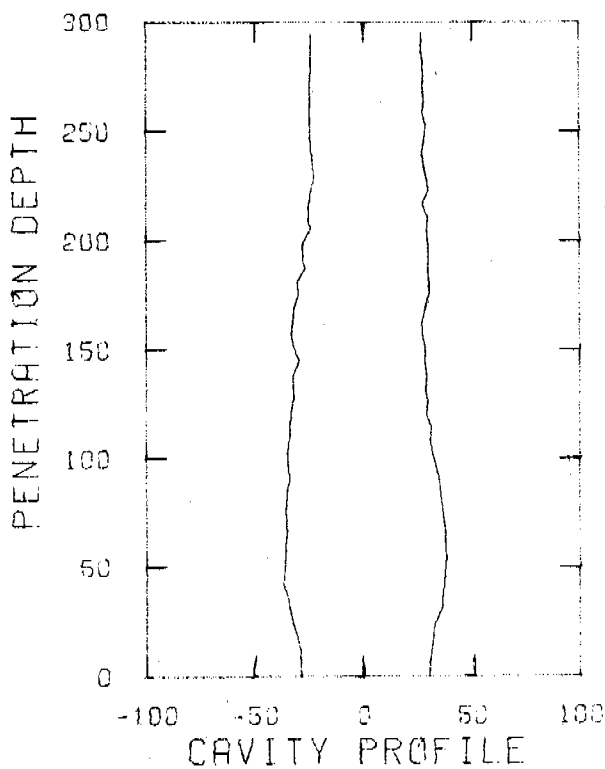
PROJECTILE DIAMETER (CM) -- 10.434

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
2	73	74
32	79	86
68	80	80
109	69	70
150	86	89
208	67	82
236	55	78

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	29
6	29
31	30
17	31
23	32
29	34
36	35
42	37
47	37
54	37
59	37
65	36
72	36
78	36
84	35
90	34
96	34
102	33
108	32
114	32
120	31
126	30
132	30
138	30
144	28
150	30
156	30
162	29
168	64
174	30
180	30
186	28
192	28
198	29
204	26
210	27
216	26
222	26
228	25
234	25
240	25
246	26
252	26
258	26
264	26
270	26
276	25
282	25



ROUND NUMBER 463 CONTINUED

I	288	25
I	294	25
I	300	25
I	306	24
I	312	23
I	318	23

ROUND NUMBER -- 469

PROJECTILE MASS (GM) --14.256

PROJECTILE TYPE --SPEER,JSP,41MAG

PROJECTILE VELOCITY (MPS) --302.22

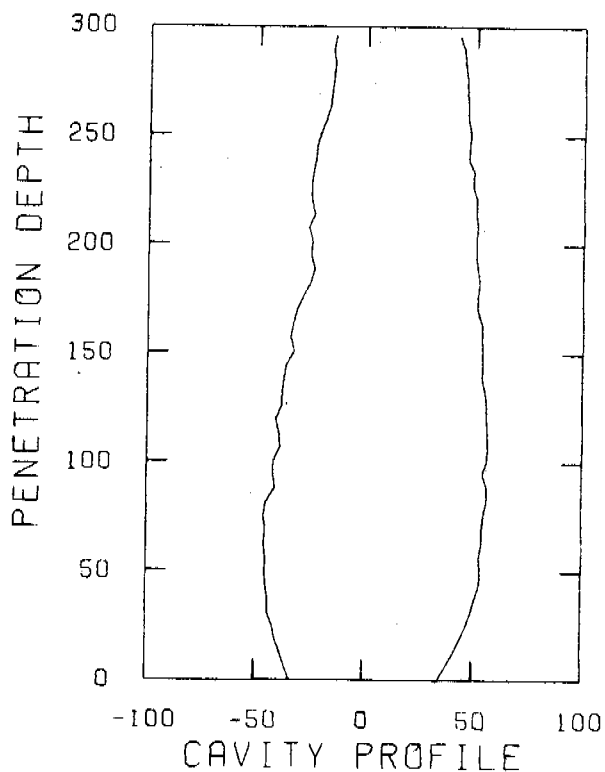
PROJECTILE DIAMETER (CM) -- 10.434

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-2	68	68
28	65	65
66	90	93
103	78	78
146	81	81
203	75	75
230	78	78

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	33
6	37
12	39
18	42
25	44
31	46
37	47
44	49
50	49
56	49
63	50
69	49
75	50
81	50
88	48
94	48
100	49
106	47
113	47
119	48
125	47
132	46
138	45
144	45
150	43
157	43
163	43
170	41
176	40
182	38
188	37
194	37
201	37
207	38
213	37
220	38
226	37
232	37
238	35
245	35
251	34
257	32
263	31
270	31
276	30
282	29
289	29
295	28



ROUND NUMBER 469 CONTINUED

I	301	28
I	307	27
I	314	26
I	320	25
I	326	23
I		

ROUND NUMBER -- 460

PROJECTILE MASS (GM) --14.256

PROJECTILE TYPE --SPEER, JSP, 41 MAG

PROJECTILE VELOCITY (MPS) --395.33

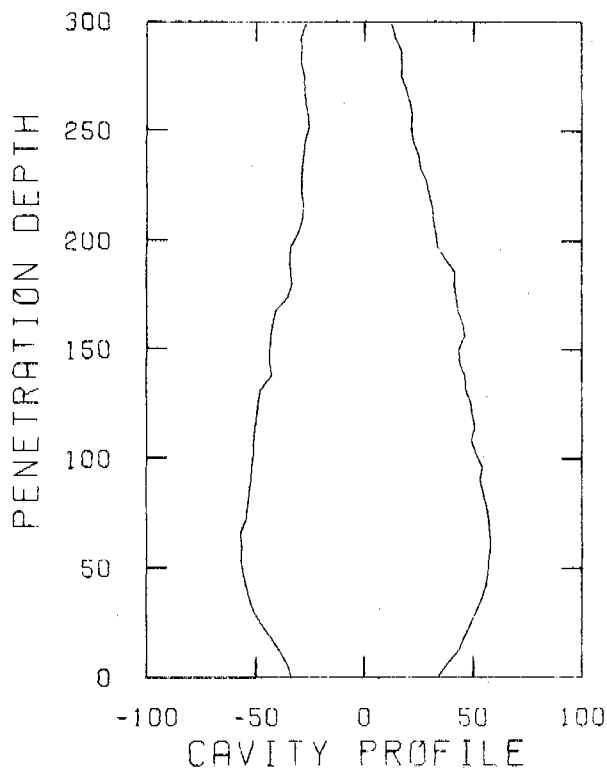
PROJECTILE DIAMETER (CM) -- 10.414

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	98	99
28	98	98
65	104	104
104	114	114
141	106	106
192	107	111
214	108	111

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	33
5	36
12	41
17	44
23	47
30	51
35	53
41	55
48	56
53	57
59	57
66	57
72	55
77	54
83	53
89	52
95	53
101	51
107	49
113	50
119	49
125	48
131	47
138	44
143	43
149	43
155	44
161	43
167	41
173	38
179	37
185	37
191	35
197	33
203	31
209	29
215	29
221	29
227	28
233	27
239	26
245	24
251	23
257	23
263	23
269	23
275	22
281	23



ROUND NUMBER 460 CONTINUED

1	286	22
1	293	21
1	299	19
1	305	19
1	310	17
1	316	17

ROUND NUMBER -- 389

PROJECTILE ASS (CM) --12.960

PROJECTILE TYPE --SPEER, JHP, 44 MAG

PROJECTILE VELOCITY (MPS) --223.11

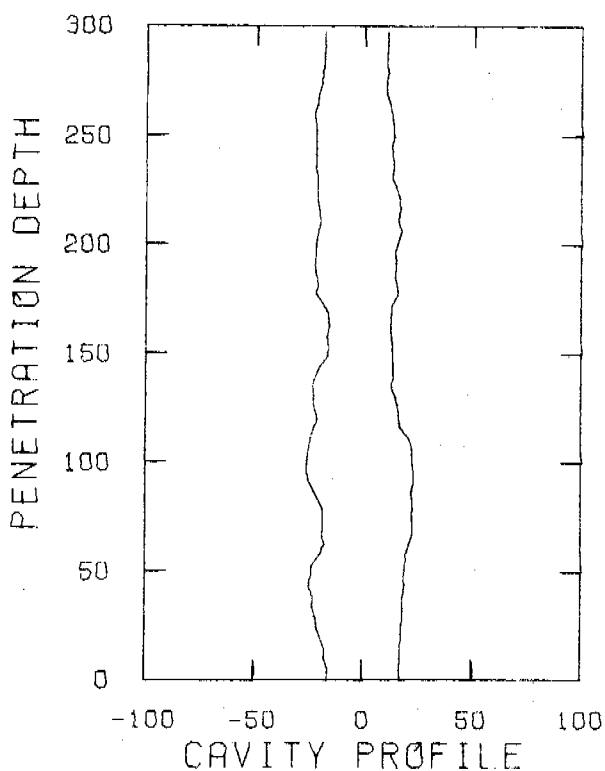
PROJECTILE DIAMETER (CM) -- 10.897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-8	79	81
11	84	85
34	85	88
61	88	88
89	90	90
129	77	79
149	77	85

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	16
I	4	16
I	9	17
I	14	17
I	19	18
I	24	19
I	28	20
I	33	20
I	38	20
I	43	21
I	47	21
I	52	21
I	57	19
I	62	19
I	67	20
I	71	20
I	76	20
I	81	21
I	86	22
I	91	24
I	95	24
I	100	24
I	105	23
I	110	22
I	115	20
I	119	18
I	124	18
I	129	18
I	134	17
I	139	17
I	143	16
I	148	14
I	153	14
I	158	14
I	163	13
I	168	14
I	172	15
I	177	18
I	182	17
I	187	18
I	192	18
I	196	18
I	201	18
I	206	19
I	210	17
I	215	18
I	220	18
I	225	18



ROUND NUMBR 389 CONTINUED

I	230	17
I	235	17
I	240	17
I	244	17
I	249	17
I	254	17
I	259	17
I	263	16
I	268	15
I	273	14
I	278	14
I	283	14
I	288	14
I	292	14
I	297	14
I	302	13
I	306	12
I	311	12
I	316	12
I	321	11
I		

ROUND NUMBER -- 388

PROJECTILE MASS (GM) --12.960

PROJECTILE TYPE --SPEER,JHP,44MAG

PROJECTILE VELOCITY (MPS) --285.29

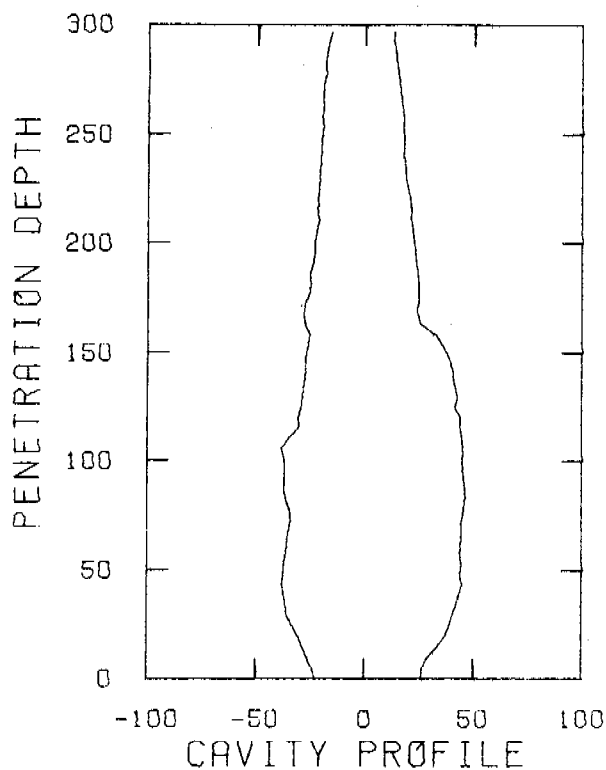
PROJECTILE DIAMETER (CM) -- 10.897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-10	84	86
14	81	81
42	88	92
72	90	91
101	88	88
144	87	88
164	87	88

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	24
4	25
9	27
14	30
19	33
23	36
28	38
33	39
38	40
43	41
47	40
52	40
57	40
62	39
67	39
71	39
76	39
81	41
86	41
90	41
95	41
100	41
105	41
109	40
114	37
119	37
124	35
129	35
134	34
139	34
143	33
148	32
153	30
157	28
162	26
167	25
172	25
177	24
181	24
186	24
191	23
196	22
201	22
205	21
210	20
215	21
220	20
225	20



ROUND NUMBER 388 CONTINUED

I	229	19
I	234	19
I	239	18
I	244	18
I	248	18
I	253	18
I	258	18
I	263	17
I	268	17
I	272	17
I	277	16
I	282	16
I	287	15
I	292	14
I	296	14
I	301	13
I	306	13
I	310	12
I	315	12
I	320	12
I		

ROUND NUMBER -- 452

PROJECTILE MASS (GM) --12.960

PROJECTILE TYPE --SPEER,JHP,44MAG

PROJECTILE VELOCITY (MPS) --337.41

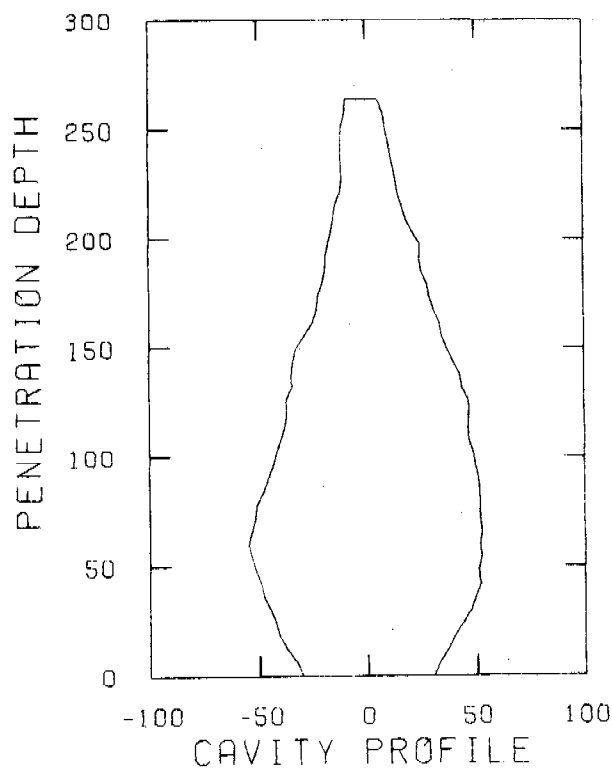
PROJECTILE DIAMETER (CM) -- 10.922

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-5	103	103
18	157	157
47	233	235
76	190	191
103	196	199
137	222	222
150	203	206

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	30
6	32
12	37
18	40
24	43
30	46
36	48
41	50
48	51
54	52
60	53
66	52
71	51
78	51
83	49
89	48
96	46
102	45
107	43
113	41
120	41
125	41
131	39
138	38
143	36
149	34
156	31
161	28
167	26
173	25
179	23
185	21
191	21
197	20
203	18
209	16
215	15
221	13
227	12
233	11
239	11
245	10
251	9
257	8
263	7



RUND NUMBER -- 387

PROJECTILE MASS (GM) --12.960

PROJECTILE TYPE --SPEER, JHP, 44MAG

PROJECTILE VELOCITY (MPS) --344.12

PROJECTILE DIAMETER (CM) -- 10.897

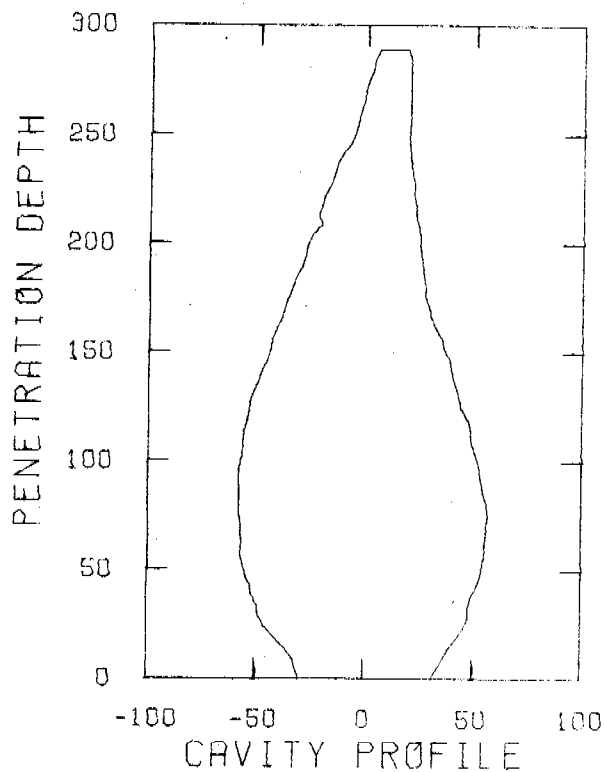
PROJECTILE DEFORMATION

I CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-4	91	91
23	94	95
54	290	298
82	279	340
111	221	285
145	221	222
160	227	227

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
--------------------------------	----------------------

I 0	30
I 4	32
I 9	34
I 14	37
I 18	42
I 23	45
I 28	48
I 33	48
I 37	50
I 42	52
I 47	54
I 52	55
I 56	56
I 61	56
I 66	56
I 70	56
I 75	57
I 80	57
I 85	56
I 89	56
I 94	55
I 99	54
I 104	53
I 40	52
I 113	52
I 118	50
I 123	49
I 127	47
I 132	46
I 137	44
I 142	43
I 146	41
I 151	39
I 156	38
I 161	36
I 165	34
I 170	32
I 175	31
I 179	30
I 184	29
I 189	27
I 194	26
I 198	25
I 203	24
I 208	22
I 213	22
I 217	21
I 222	20



ROUND NUMBER 387 CONTINUED

I	227	18
I	231	17
I	237	16
I	241	15
I	246	13
I	251	12
I	255	12
I	260	11
I	265	10
I	270	9
I	274	9
I	279	8
I	284	8
I	289	6
I		

ROUND NUMBER -- 451

PROJECTILE MASS (GM) -- 12.960

PROJECTILE TYPE --SPEER, JHP, 44MAG

PROJECTILE VELOCITY (MPS) --377.65

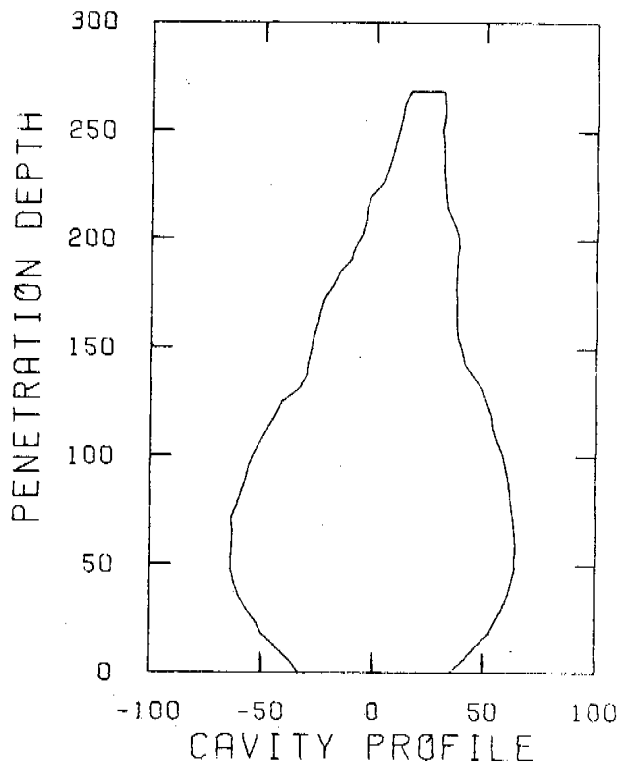
PROJECTILE DIAMETER (CM) -- 10.922

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-6	108	110
21	147	149
55	177	178
85	107	121
112	217	217
145	245	246
159	196	198

I CAVITY MEASUREMENTS

I	I	I
I	PENETRATION	CAVITY
I	DISTANCE (MM)	RADIUS(MM)
I	0	34
I	5	39
I	11	44
I	17	51
I	23	54
I	29	57
I	35	60
I	41	62
I	47	63
I	53	63
I	59	63
I	65	63
I	71	63
I	77	61
I	83	60
I	89	59
I	95	57
I	101	56
I	107	53
I	113	50
I	119	48
I	125	46
I	131	43
I	137	37
I	142	35
I	149	33
I	155	32
I	161	31
I	167	30
I	173	29
I	179	27
I	185	26
I	190	24
I	196	23
I	202	21
I	208	19
I	214	17
I	220	16
I	226	13
I	232	12
I	238	11
I	244	10
I	250	9
I	256	9
I	262	9
I	268	7
I		



ROUND NUMBER -- 371

PROJECTILE MASS (GM) --12.960

PROJECTILE TYPE --SPEER,JHP,44MAG

PROJECTILE VELOCITY (MPS) --406.30

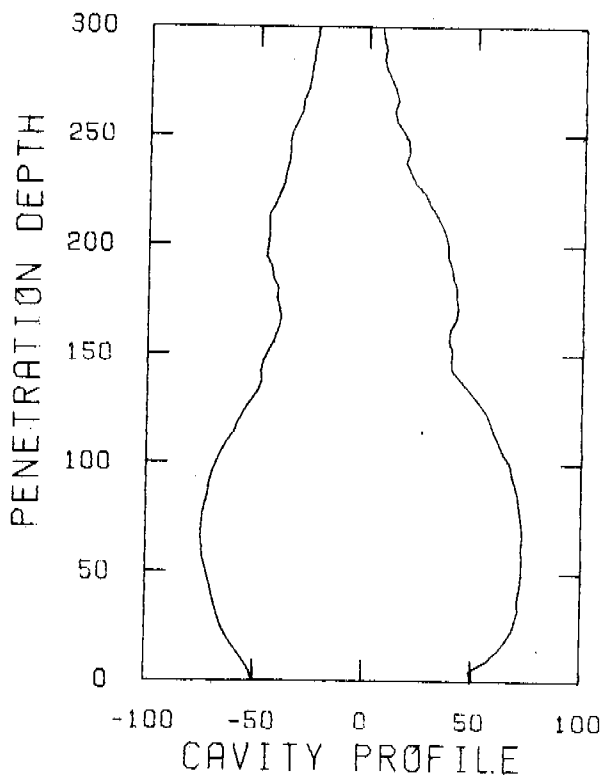
PROJECTILE DIAMETER (CM) -- 10.846

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	136	136
21	323	323
56	260	261
89	291	302
119	281	332
159	273	282
177	286	303

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	50
4	50
9	56
14	60
18	63
23	66
28	68
32	69
37	70
42	71
47	72
52	72
56	73
61	73
66	74
71	73
75	73
80	72
85	71
90	70
94	69
99	67
104	65
109	62
114	59
118	58
123	55
128	52
132	48
137	45
142	43
147	43
151	42
156	40
161	39
166	40
170	41
175	41
180	41
185	41
189	41
194	41
199	41
204	40
208	39
213	38
218	35
223	33



ROUND NUMBER 371 CONTINUED

I	228	30
I	232	28
I	237	26
I	242	27
I	246	27
I	251	25
I	256	22
I	261	21
I	265	21
I	270	20
I	275	18
I	280	17
I	284	16
I	289	16
I	294	15
I	299	14
I	304	12
I	308	11
I	313	11
I	318	10
I	322	7

ROUND NUMBER -- 386

PROJECTILE MASS (GM) --14.580

PROJECTILE TYPE --SPEER,JHP,44

PROJECTILE VELOCITY (MPS) --252.07

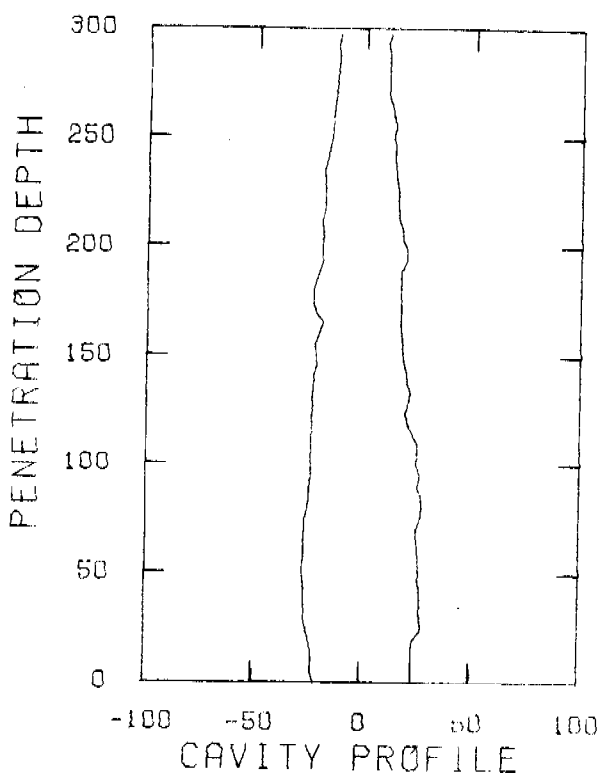
PROJECTILE DIAMETER (CM) -- 10.897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-11	62	62
9	80	85
36	81	82
65	72	72
94	80	81
136	76	76
157	80	80

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	22
I	4	23
I	9	23
I	14	23
I	19	23
I	23	26
I	28	26
I	32	26
I	37	26
I	42	26
I	47	26
I	51	27
I	56	26
I	61	26
I	66	25
I	70	25
I	75	26
I	80	26
I	84	25
I	89	24
I	94	25
I	99	24
I	104	24
I	108	24
I	113	23
I	118	21
I	122	21
I	127	21
I	132	22
I	136	21
I	141	21
I	146	19
I	150	19
I	155	19
I	160	18
I	165	17
I	169	19
I	174	20
I	179	19
I	183	19
I	188	18
I	193	19
I	197	19
I	202	18
I	207	17
I	212	17
I	217	16
I	221	16



ROUND NUMBER 386 CONTINUED

I	226	16
I	231	16
I	235	16
I	240	15
I	245	15
I	249	14
I	254	14
I	259	13
I	263	13
I	268	12
I	273	11
I	278	11
I	283	11
I	287	11
I	292	11
I	297	11
I	301	11
I	306	10
I	310	9
I	315	8
I		

ROUND NUMBER -- 459

PROJECTILE MASS (GM) --14.580

PROJECTILE TYPE --SPEER,JHP,44MAG

PROJECTILE VELOCITY (MPS) --383.58

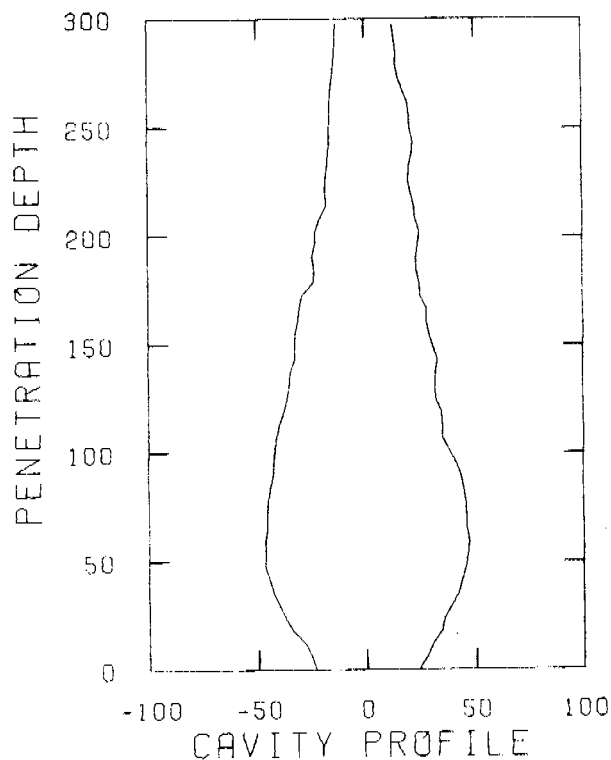
PROJECTILE DIAMETER (CM) -- 10.922

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	66	66
15	127	127
46	109	109
75	126	126
104	118	118
145	128	130
162	93	94

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	23
5	26
11	29
17	34
23	36
29	39
35	42
41	44
48	46
53	46
59	47
65	45
71	45
77	45
83	44
89	43
95	41
101	40
107	38
113	37
119	36
125	34
131	33
137	33
143	32
149	31
154	30
161	29
167	28
172	27
178	24
185	23
190	23
196	23
202	23
208	21
214	19
220	19
226	18
232	18
238	19
244	19
250	18
256	18
262	17
267	16
273	15
279	14



ROUND NUMBER 459 CONTINUED

I	285	13
I	291	13
I	297	12
I	303	12
I	309	11
I	315	10

ROUND NUMBER -- 385

PROJECTILE MASS (GM) --14.580

PROJECTILE TYPE --SPEER,JHP,44

PROJECTILE VELOCITY (MPS) --303.89

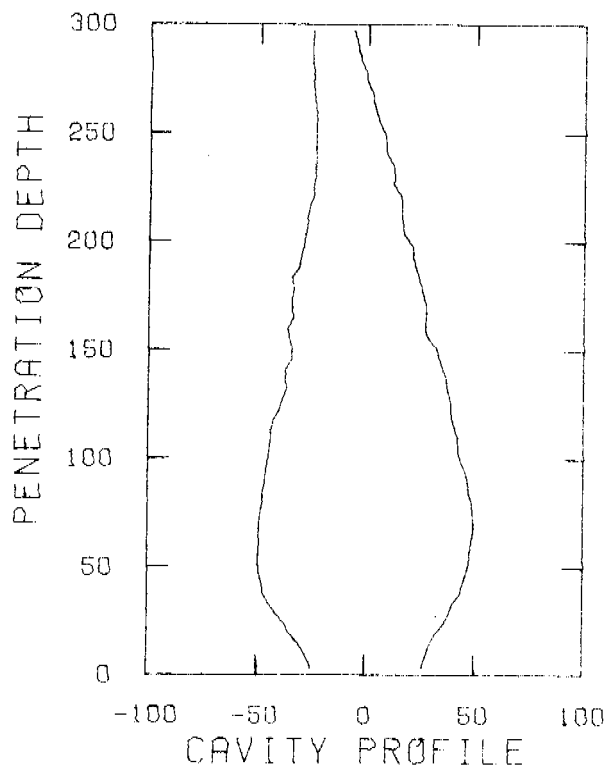
PROJECTILE DIAMETER (CM) -- 10.897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	83	83
15	112	112
45	122	143
74	131	131
103	115	115
142	120	120
160	127	128

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	24
4	26
9	27
13	29
19	33
23	36
28	39
33	42
37	45
42	46
47	47
52	48
56	48
61	48
66	49
70	49
75	48
80	48
84	47
89	46
94	45
99	44
103	43
108	43
113	42
118	40
122	39
127	38
132	36
136	36
141	35
146	33
150	32
155	31
160	31
165	30
169	30
174	30
179	29
183	28
188	26
193	25
197	24
203	22
207	21
211	21
217	21
221	19



ROUND NUBER 305 CONTINUED

I	226	18
I	230	17
I	235	17
I	240	16
I	245	15
I	250	15
I	254	14
I	259	13
I	264	13
I	268	13
I	273	12
I	278	11
I	282	11
I	287	10
I	292	9
I	297	9
I	301	7
I	306	7
I	311	5
I		

ROUND NUMBER -- 458

PROJECTILE MASS (GM) --14.580

PROJECTILE TYPE --SPEER,JHP,44MAG

PROJECTILE VELOCITY (MPS) --352.96

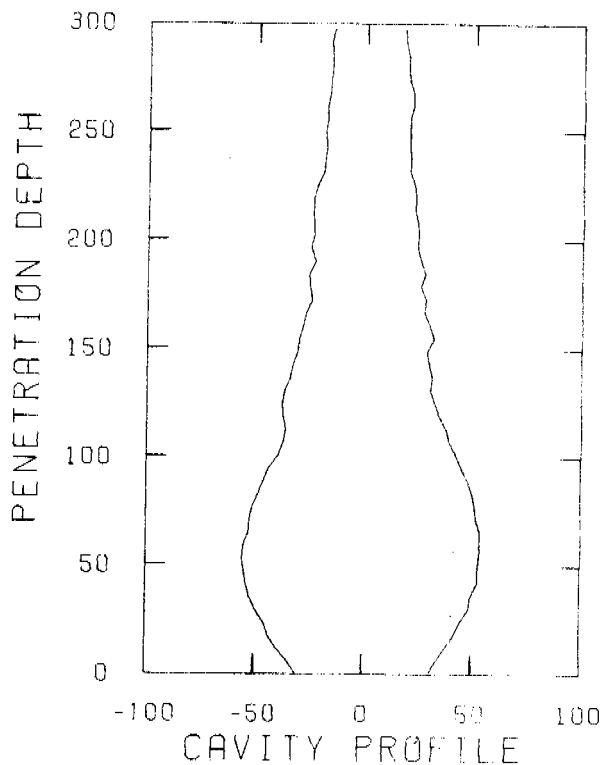
PROJECTILE DIAMETER (CM) -- 10.922

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-2	102	102
22	194	194
55	206	207
89	102	103
124	95	96
173	94	95
195	85	87

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	30
5	34
11	38
17	42
23	45
29	49
35	50
41	53
47	53
53	54
59	54
65	53
71	52
77	51
83	49
89	46
95	44
101	40
107	38
113	36
118	35
124	35
130	33
136	32
142	31
148	29
154	30
160	29
166	27
172	26
178	25
184	26
190	24
196	24
202	23
208	23
214	23
219	23
225	22
231	19
237	19
243	18
249	19
256	18
261	19
267	19
273	17
279	17



ROUND NUMBER 458 CONTINUED

1	285	17
1	291	17
1	297	16
1	303	15
1	309	15
1		

ROUND NUMBER -- 457

PROJECTILE MASS (GM) --14.50

PROJECTILE TYPE --SPEER,JHP,44MAG

PROJECTILE VELOCITY (MPS) --355.70

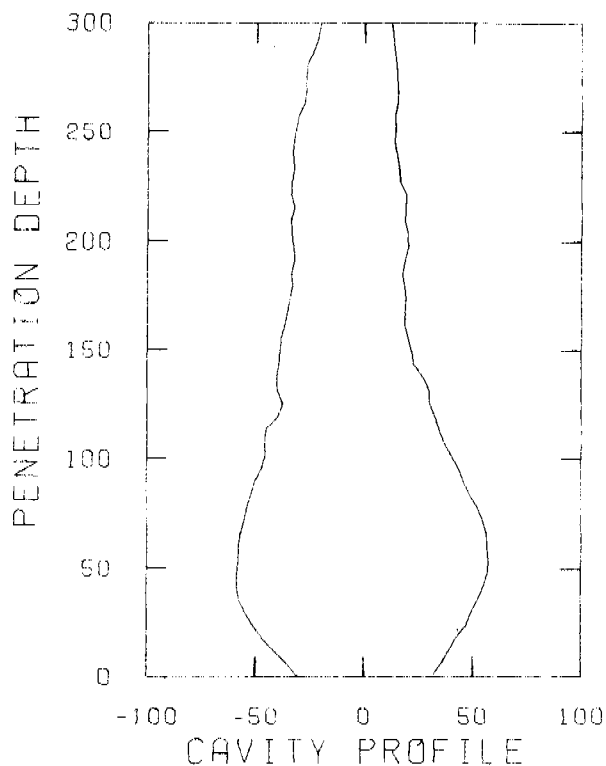
PROJECTILE DIAMETER (CM) -- 10.922

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-5	103	104
20	208	209
55	225	228
91	193	194
125	88	88
175	87	87
199	87	89

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	30
5	35
11	40
17	44
23	49
29	52
35	55
41	56
47	57
53	57
60	57
65	56
71	54
77	52
83	50
89	48
95	45
101	42
107	41
113	39
119	36
125	33
131	34
137	33
143	31
149	30
155	29
161	27
167	26
173	26
179	25
185	25
191	25
197	26
203	26
209	26
215	25
221	26
227	24
233	24
239	24
245	23
251	22
257	22
263	21
268	21
274	20
281	20



ROUND NUMBER 457 CONTINUED

1	286	18
1	292	17
1	299	16
1	304	15
1	310	14
1		

ROUND NUMBER -- 384

PROJECTILE MASS (GM) --14.580

PROJECTILE TYPE --SPEER,JHP,44

PROJECTILE VELOCITY (MPS) --360.27

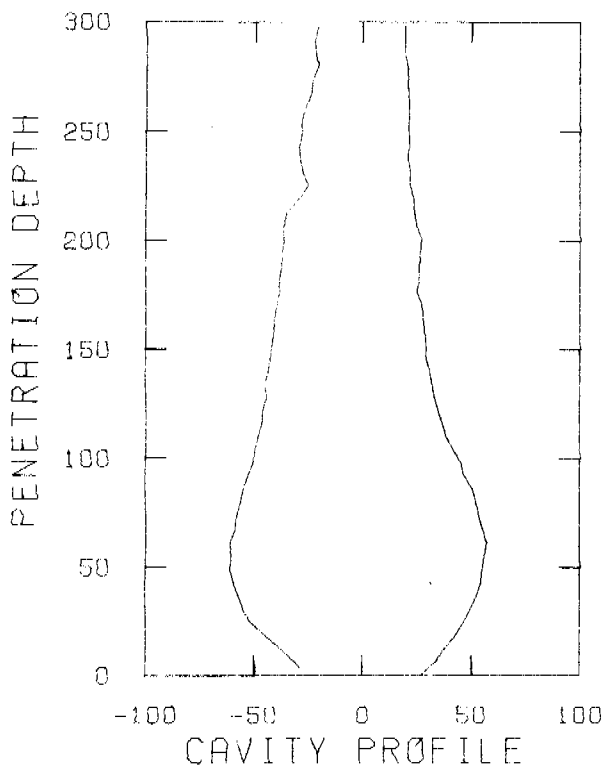
PROJECTILE DIAMETER (CM) -- 10.897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-6	64	64
20	202	203
52	224	225
90	88	89
126	88	92
175	69	85
198	79	92

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	25
5	32
12	37
18	43
24	48
30	52
36	54
42	57
48	58
54	58
61	59
67	57
73	55
79	54
85	52
91	49
97	47
103	45
109	43
115	41
121	40
127	38
134	38
140	37
146	35
152	35
158	34
164	34
170	33
176	31
182	32
188	31
194	31
200	31
206	30
212	29
219	26
225	23
231	24
237	24
243	25
249	24
255	24
261	23
267	22
273	21
279	20
285	20



ROUND NUMBER 384 CONTINUED

I	292	20
I	298	19
I	304	19
I	310	18
I	316	18
I	322	18
I	328	17
I		

ROUND NUMBER -- 379

PROJECTILE MASS (GM) --15.552

PROJECTILE TYPE --SPEER,JSP.44

PROJECTILE VELOCITY (MPS) --256.03

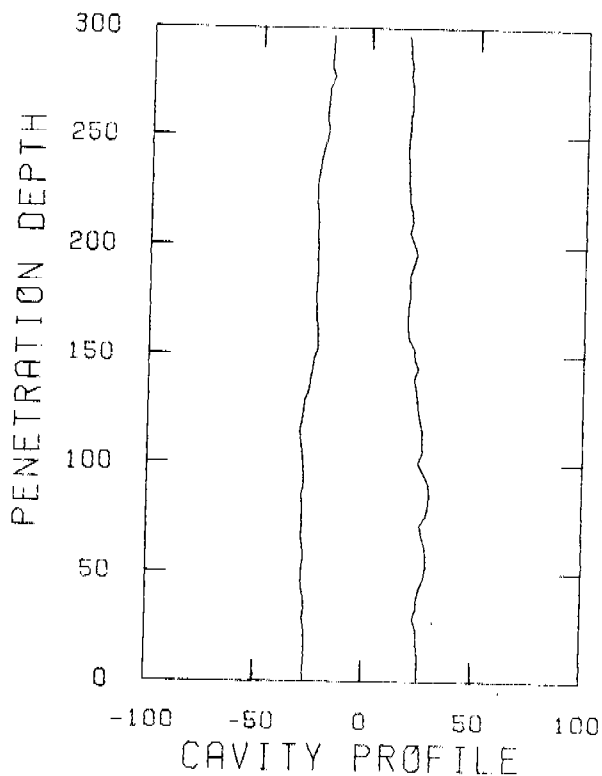
PROJECTILE DIAMETER (CM) -- 30.897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	82	82
16	78	78
41	83	87
71	77	81
105	71	72
152	63	64
177	80	81

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	26
I	4	26
I	9	26
I	14	25
I	19	25
I	23	25
I	28	25
I	33	25
I	36	25
I	42	27
I	47	28
I	52	28
I	57	28
I	62	28
I	67	27
I	71	27
I	76	28
I	81	28
I	85	29
I	90	28
I	95	27
I	100	26
I	105	27
I	109	27
I	114	28
I	119	27
I	124	26
I	128	25
I	133	24
I	138	23
I	143	24
I	147	23
I	152	22
I	157	20
I	162	20
I	167	20
I	172	21
I	177	21
I	181	21
I	186	21
I	191	21
I	195	22
I	200	21
I	205	21
I	210	21
I	215	21
I	219	21
I	224	21



ROUND NUMBER 379 CONTINUED

I	229	20
I	234	20
I	238	20
I	243	19
I	248	18
I	253	18
I	258	19
I	262	19
I	267	19
I	272	19
I	277	17
I	281	18
I	286	17
I	291	17
I	296	17
I	300	16
I	305	15
I	310	15
I	315	15
I	320	14
I	324	13

ROUND NUMBER -- 375

PROJECTILE MASS (GM) --15.552

PROJECTILE TYPE --SPEER,JSP,44MAG

PROJECTILE VELOCITY (MPS) --263.35

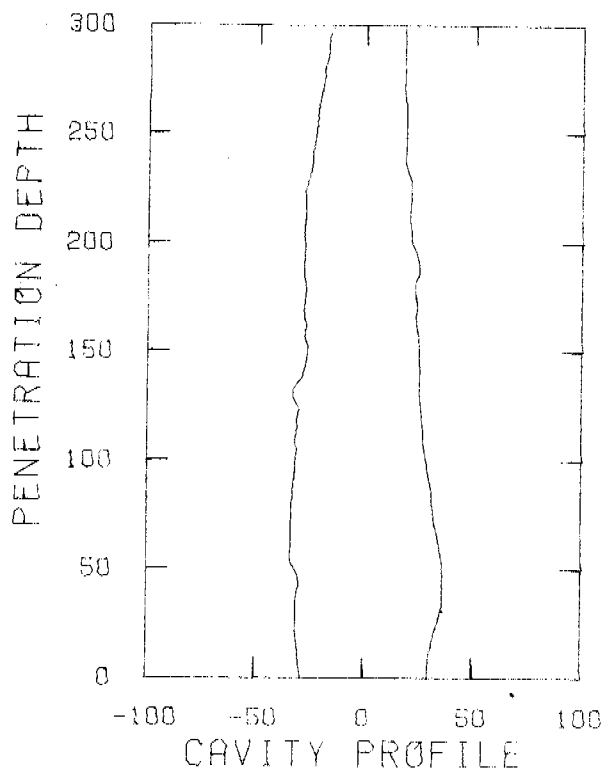
PROJECTILE DIAMETER (CM) -- 10.897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-12	72	76
9	83	85
38	94	94
68	85	87
100	81	83
146	87	92
169	77	79

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	28
I	4	29
I	9	29
I	14	30
I	19	31
I	23	32
I	28	33
I	33	33
I	38	33
I	42	32
I	47	33
I	52	34
I	57	34
I	61	33
I	66	33
I	71	32
I	76	32
I	80	32
I	85	31
I	90	31
I	95	30
I	99	29
I	104	28
I	109	29
I	114	28
I	119	28
I	123	27
I	128	28
I	133	28
I	137	27
I	142	26
I	147	25
I	152	25
I	156	25
I	161	25
I	166	25
I	171	25
I	175	24
I	180	24
I	185	26
I	190	26
I	195	25
I	199	24
I	204	24
I	209	23
I	213	23
I	218	23
I	223	24



ROUND NUMBER 375 CONTINUED

1	228	23
1	233	22
1	237	21
1	242	21
1	247	20
1	252	20
1	256	20
1	261	20
1	266	19
1	271	18
1	275	18
1	280	18
1	285	17
1	289	17
1	294	17
1	299	16
1	304	15
1	309	15
1	313	15
1	316	14
1	322	14

ROUND NUMBER -- 374

PROJECTILE MASS (GM) --15.552

PROJECTILE TYPE --SPEER,JSP,44MAG

PROJECTILE VELOCITY (MPS) --285.29

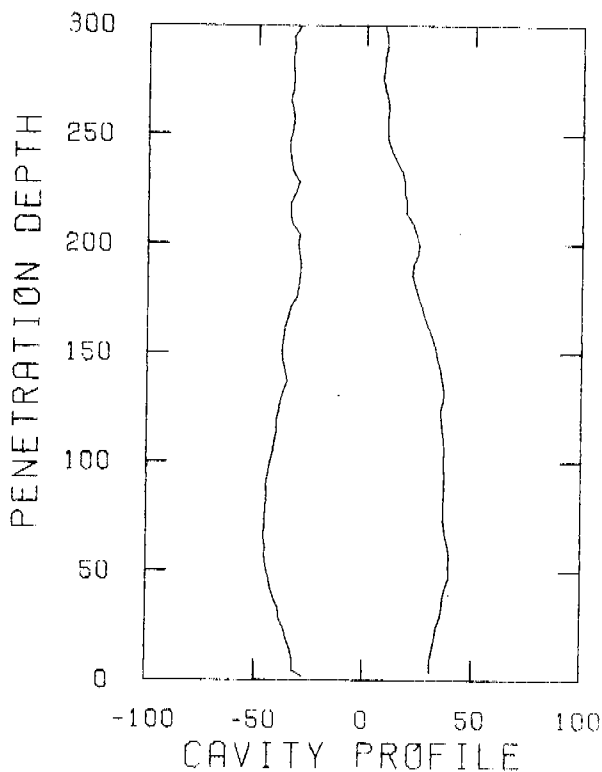
PROJECTILE DIAMETER (CM) -- 10.897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-10	89	89
12	87	97
42	84	86
74	80	84
107	88	88
153	87	93
177	85	87

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	27
I	4	31
I	9	31
I	14	32
I	18	34
I	23	35
I	28	36
I	33	37
I	38	38
I	42	40
I	47	41
I	52	42
I	57	42
I	61	42
I	66	41
I	71	41
I	75	41
I	80	40
I	85	40
I	90	40
I	94	40
I	99	40
I	104	39
I	109	38
I	114	38
I	118	38
I	123	37
I	128	37
I	133	36
I	137	35
I	142	35
I	147	35
I	152	35
I	156	34
I	161	33
I	166	31
I	171	30
I	175	27
I	180	26
I	185	25
I	190	25
I	194	27
I	199	27
I	204	26
I	209	27
I	214	26
I	218	26
I	223	25



ROUND NUMBER 374 CONTINUED

I	228	24
I	233	25
I	237	24
I	242	23
I	247	22
I	251	21
I	256	21
I	261	22
I	266	22
I	270	21
I	275	20
I	280	21
I	284	21
I	289	21
I	294	21
I	299	19
I	304	19
I	308	18
I	313	17
I	318	16
I	323	15

ROUND NUMBER -- 453

PROJECTILE MASS (GM) -- 15.552

PROJECTILE TYPE -- SPEER, JSP, 44 MAG

PROJECTILE VELOCITY (MPS) -- 299.31

PROJECTILE DIAMETER (CM) -- 10.922

PROJECTILE DEFORMATION

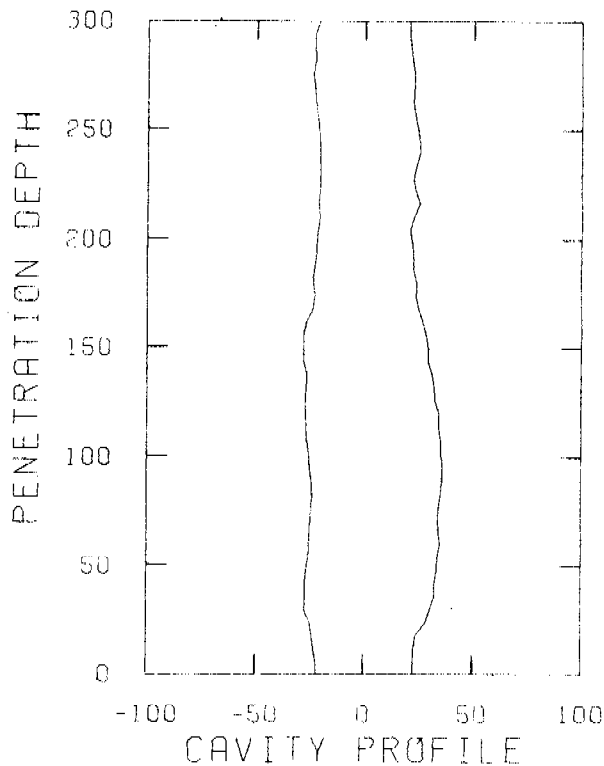
I CAVITY MEASUREMENTS

PENETRATION PRESENTED CROSS-SECT
DISTANCE (MM) AREA (MM**2) AREA (MM**2)

I PENETRATION CAVITY
I DISTANCE (MM) RADIUS (MM)

54	78	79
79	67	67
109	84	84
141	82	82
174	68	68
224	85	85
248	79	79

I	0	22
I	5	22
I	11	23
I	17	24
I	23	26
I	29	29
I	35	30
I	41	29
I	47	30
I	53	29
I	59	30
I	65	29
I	71	29
I	78	29
I	83	29
I	89	30
I	95	30
I	101	30
I	107	30
I	114	30
I	119	30
I	126	29
I	132	29
I	137	28
I	143	28
I	149	28
I	156	28
I	161	26
I	167	24
I	173	23
I	179	23
I	185	22
I	191	22
I	197	22
I	203	21
I	209	21
I	215	23
I	221	21
I	227	21
I	233	22
I	239	23
I	245	22
I	251	22
I	257	22
I	263	22
I	269	23
I	275	23
I	281	22



ROUND NUMBER 453 CONTINUED

I	287	22
I	293	21
I	299	20
I	305	19
I	311	20
I	317	18

ROUND NUMBER -- 373

PROJECTILE MASS (GM) --15.552

PROJECTILE TYPE --SPEER,JSP,44MAG

PROJECTILE VELOCITY (MPS) --330.71

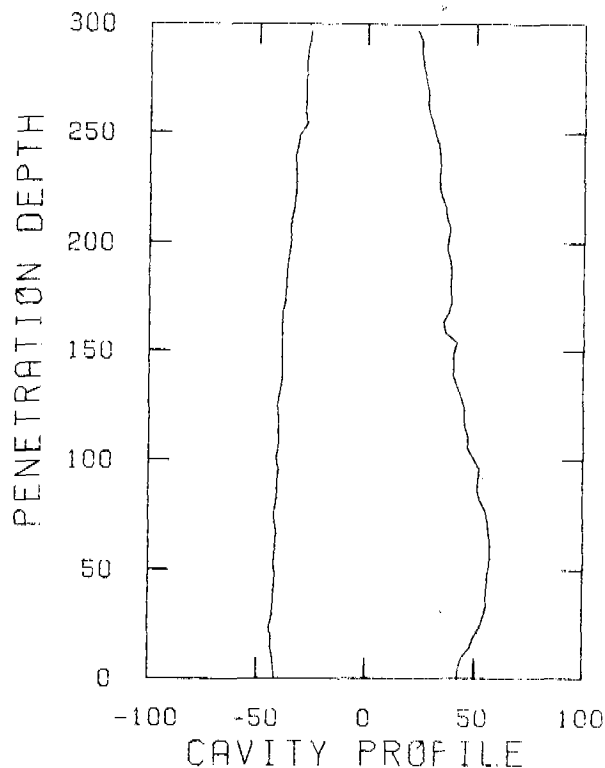
PROJECTILE DIAMETER (CM) -- 10.897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	93	94
23	88	89
53	115	116
90	110	118
125	114	187
172	108	112
195	102	110

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	41
I	4	42
I	9	43
I	14	45
I	19	46
I	23	48
I	28	48
I	33	49
I	38	49
I	43	49
I	48	48
I	52	49
I	57	49
I	62	49
I	66	48
I	71	49
I	76	48
I	81	46
I	86	46
I	91	46
I	95	46
I	100	45
I	105	43
I	110	43
I	115	42
I	119	42
I	124	42
I	129	41
I	134	40
I	139	39
I	143	39
I	148	39
I	153	40
I	158	37
I	163	37
I	167	38
I	172	38
I	177	37
I	182	37
I	187	37
I	191	37
I	196	36
I	201	36
I	206	36
I	210	35
I	215	34
I	220	33
I	225	32



ROUND NUMBR 373 CONTINUED

1	230	33
1	235	33
1	239	33
1	244	32
1	249	31
1	254	28
1	259	28
1	263	28
1	268	28
1	273	27
1	278	26
1	283	26
1	287	26
1	292	25
1	297	24
1	302	23
1	307	22
1	311	20
1	316	19
1	321	17
1		

ROUND NUMBER -- 376

PROJECTILE MASS (GM) --15.552

PROJECTILE TYPE --SPEER,JSP,44

PROJECTILE VELOCITY (MPS) --332.54

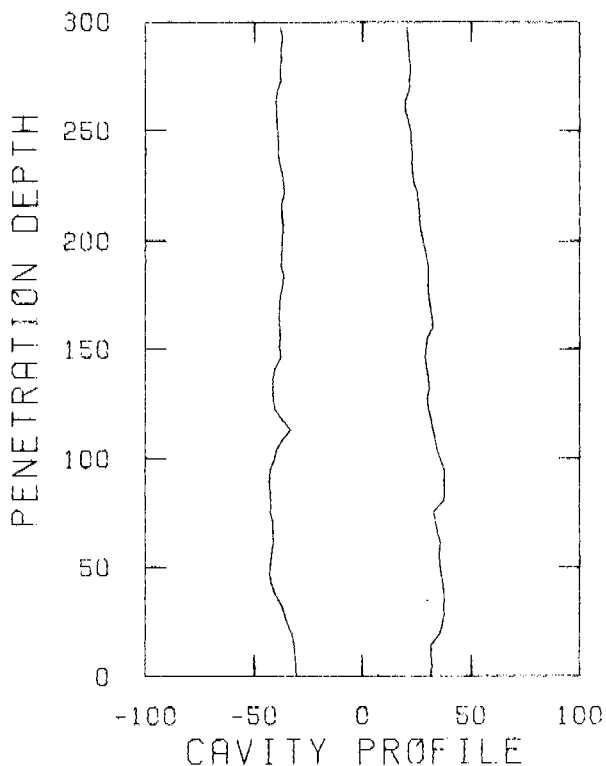
PROJECTILE DIAMETER (CM) -- 10.897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-4	67	69
24	79	81
59	80	83
97	84	85
136	81	88
192	83	85
220	79	81

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	30
4	31
9	31
14	31
18	34
23	35
28	36
32	37
37	38
42	39
47	39
52	38
56	36
61	38
66	37
70	37
75	37
80	39
84	40
89	40
94	40
99	38
103	36
108	35
113	32
117	34
122	35
127	35
132	36
136	35
141	34
146	33
150	33
155	33
160	35
165	35
169	34
174	34
179	33
184	33
188	33
193	33
198	32
202	32
207	31
212	31
217	31
221	30



ROUND NUMBER 376 CONTINUED

I	226	30
I	231	30
I	235	30
I	240	30
I	245	30
I	249	30
I	254	30
I	259	29
I	264	29
I	268	30
I	273	29
I	278	30
I	282	29
I	287	29
I	292	28
I	297	29
I	301	28
I	306	27
I	311	26
I	315	26
I		

ROUND NUMBER -- 378

PROJECTILE MASS (GM) --15.552

PROJECTILE TYPE --SPEER,JSP,44

PROJECTILE VELOCITY (MPS) --345.64

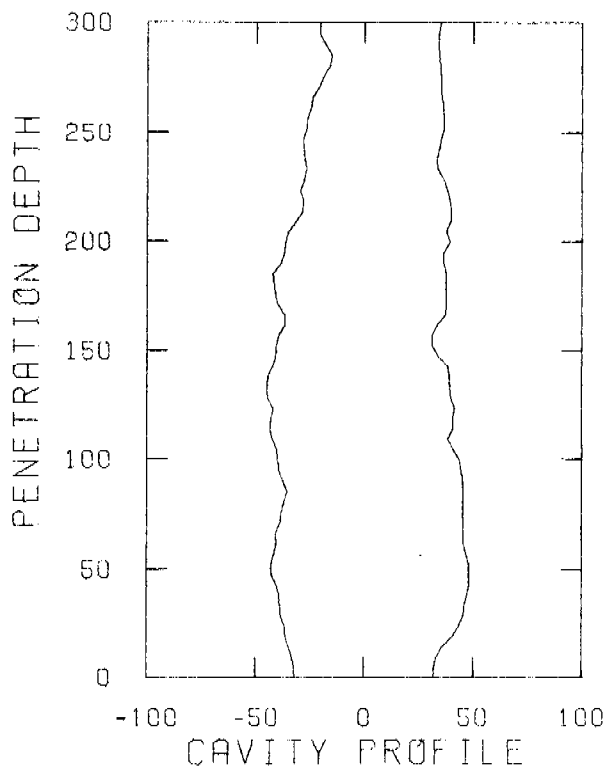
PROJECTILE DIAMETER (CM) -- 10.897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-5	78	78
27	71	77
60	83	88
100	76	76
139	86	86
194	79	81
222	59	60

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	31
4	32
9	33
13	35
18	38
23	40
28	42
33	42
37	43
42	44
47	45
52	45
56	44
61	42
66	43
71	42
75	41
80	41
85	40
90	41
94	41
99	41
104	40
109	40
114	42
118	41
123	41
128	42
133	42
137	41
142	40
147	37
152	35
156	35
161	34
166	36
171	38
175	39
180	39
185	39
189	37
194	36
199	37
204	36
208	35
213	34
218	33
223	33



ROUND NUMBER 378 CONTINUED

I	227	32
I	233	29
I	237	30
I	242	31
I	247	31
I	251	31
I	256	31
I	261	30
I	266	29
I	270	27
I	275	26
I	280	25
I	285	24
I	289	25
I	294	27
I	299	27
I	304	27
I	308	26
I	313	24
I	318	23
I	322	22

ROUND NUMBER -- 377

PROJECTILE MASS (GM) --15.552

PROJECTILE TYPE --SPEER,JSP,44

PROJECTILE VELOCITY (MPS) --366.67

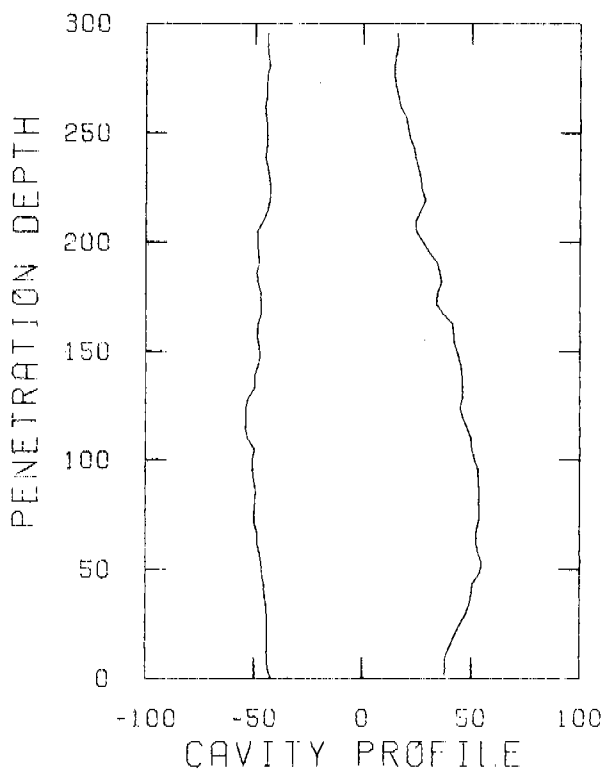
PROJECTILE DIAMETER (CM) -- 10.897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-10	81	81
19	80	81
56	86	86
96	87	87
137	77	82
192	63	67
219	52	70

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	39
4	40
9	41
14	42
19	43
24	44
28	45
33	46
38	47
43	48
48	50
52	50
57	50
62	50
66	50
71	51
76	51
81	51
86	51
90	51
95	51
100	51
105	50
109	51
114	51
119	50
123	49
128	49
133	47
138	47
143	46
147	45
152	45
157	45
162	44
167	41
171	40
176	40
181	42
186	42
190	40
195	39
200	37
205	36
209	35
214	35
219	35
224	34



ROUND NUMBER 377 CONTINUED

1	228	34
1	233	34
1	238	34
1	243	33
1	248	32
1	252	32
1	257	32
1	267	31
1	267	30
1	271	29
1	276	29
1	281	28
1	286	29
1	290	30
1	295	29
1	300	29
1	304	28
1	310	26
1	314	26
1	319	26
1	324	26
1	328	24
1	332	24
1		

ROUND NUMBER -- 449

PROJECTILE MASS (GM) --15.552

PROJECTILE TYPE --SPEER,JSP,44MAG

PROJECTILE VELOCITY (MPS) --370.33

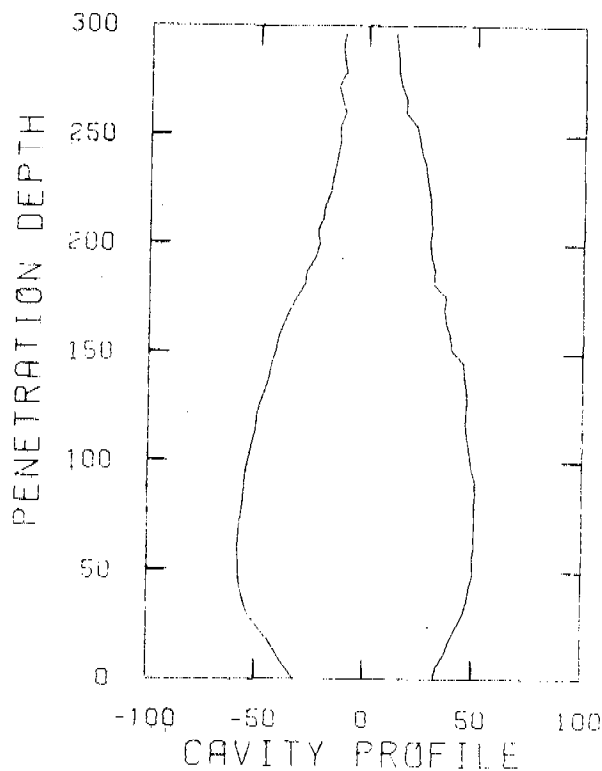
PROJECTILE DIAMETER (CM) -- 10.922

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-2	90	93
24	140	140
55	147	147
86	181	184
116	156	163
159	155	155
177	132	136

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	32
6	35
11	38
18	41
24	45
30	49
36	51
42	52
48	54
54	53
60	54
66	54
73	54
78	53
84	53
91	53
97	51
102	50
109	49
114	48
121	48
127	47
133	46
139	44
145	44
151	40
157	39
163	37
169	35
175	34
181	29
187	29
193	26
199	25
205	26
211	24
218	24
224	22
230	21
236	20
242	18
248	17
253	17
259	13
266	14
272	14
278	11
284	12



ROUND NUMBER 449 CONTINUED

I	290	12
I	296	11
I	302	11
I	308	11
I	314	10
I	320	8

ROUND NUMBER -- 30 370

PROJECTILE MASS (GM) --15.552

PROJECTILE TYPE --SPEER,JSP,44MAG

PROJECTILE VELOCITY (MPS) --375.82

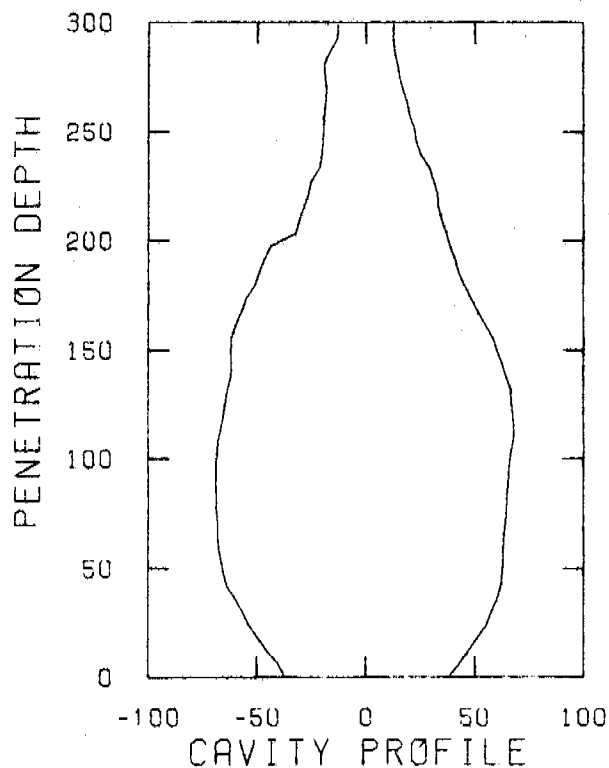
PROJECTILE DIAMETER (CM) -- 10.846

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	141	141
23	194	195
56	290	320
88	205	208
117	241	241
152	220	220
169	222	222

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	37
I	6	41
I	11	45
I	17	50
I	24	54
I	29	57
I	36	60
I	41	63
I	48	64
I	53	64
I	60	65
I	66	65
I	72	66
I	78	66
I	84	66
I	89	67
I	96	67
I	101	67
I	107	67
I	113	67
I	119	66
I	125	65
I	131	65
I	137	63
I	143	62
I	149	61
I	155	60
I	161	57
I	167	54
I	173	51
I	179	48
I	185	45
I	191	43
I	197	41
I	203	34
I	209	32
I	215	30
I	221	29
I	227	28
I	233	24
I	239	22
I	245	21
I	251	20
I	257	19
I	263	18
I	269	17
I	275	17
I	280	16



ROUND NUMBER 370 CONTINUED

1	287	14
1	292	12
1	298	12
1	304	11
1	310	10
1	316	9

ROUND NUMBER -- 40 450

PROJECTILE MASS (GM) --15.552

PROJECTILE TYPE --SPEER,JSP,44MAG

PROJECTILE VELOCITY (MPS) --389.84

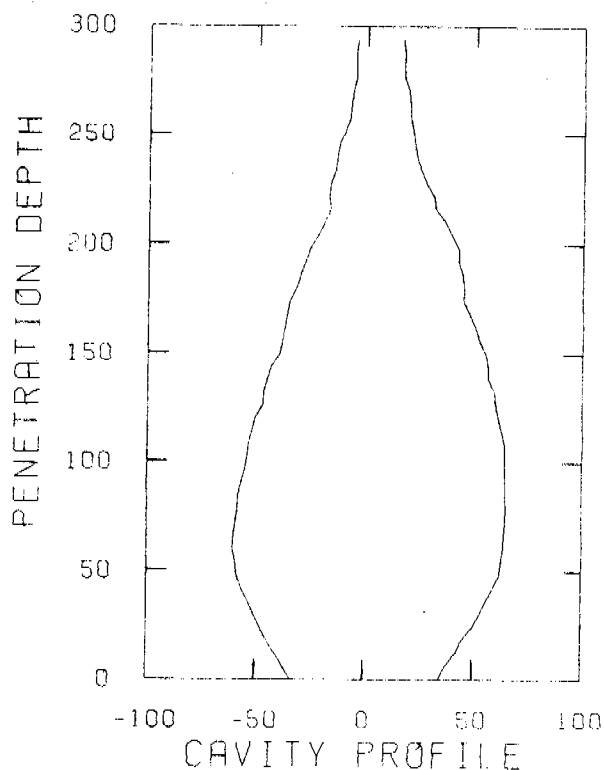
PROJECTILE DIAMETER (CM) -- 10.922

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
5	87	88
21	95	95
54	145	148
88	199	210
115	237	270
155	265	265
169	215	217

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	33
I	5	37
I	11	41
I	18	44
I	24	48
I	30	52
I	36	55
I	42	58
I	48	60
I	54	61
I	60	62
I	66	62
I	72	62
I	78	61
I	84	61
I	90	60
I	95	59
I	102	59
I	108	58
I	114	57
I	120	56
I	126	53
I	132	53
I	137	50
I	143	49
I	150	47
I	156	45
I	162	43
I	168	41
I	174	39
I	180	38
I	186	37
I	192	35
I	198	34
I	204	30
I	210	27
I	215	24
I	222	24
I	228	21
I	234	19
I	240	18
I	246	16
I	252	15
I	258	13
I	264	13
I	270	12
I	276	10
I	282	10



ROUND NUMBER 450 CONTINUED

I	288	11
I	293	10
I	300	10
I	306	9
I	311	9
I	317	9
I	323	8
I		

ROUND NUMBER -- 380

PROJECTILE MASS (GM) --15.552

PROJECTILE TYPE --SPEER,JSP.44

PROJECTILE VELOCITY (MPS) --397.46

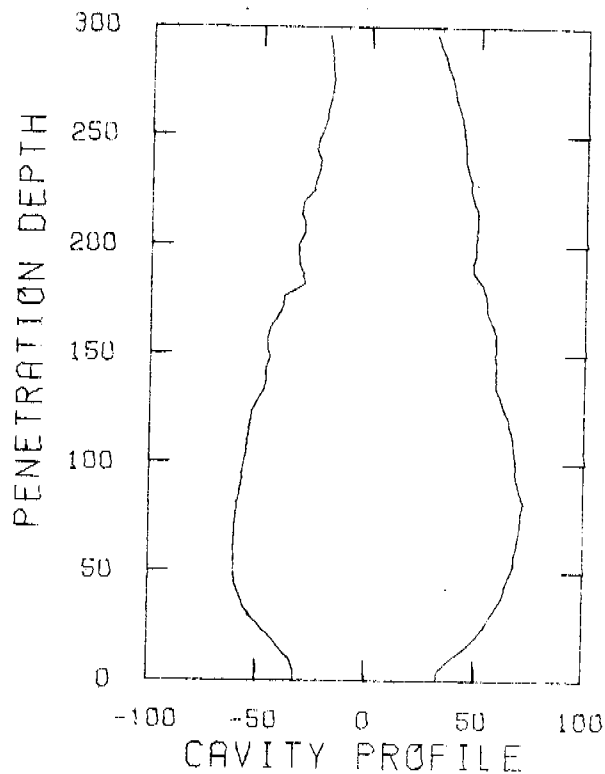
PROJECTILE DIAMETER (CM) -- 10.897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-2	84	84
29	110	110
65	113	114
102	110	115
139	115	124
190	116	119
214	109	109

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	32
I	4	33
I	9	36
I	14	42
I	19	47
I	24	51
I	28	54
I	33	58
I	38	60
I	43	62
I	47	63
I	52	64
I	57	64
I	62	65
I	67	65
I	71	65
I	76	65
I	81	65
I	86	64
I	90	63
I	95	62
I	100	62
I	105	61
I	109	61
I	114	60
I	119	59
I	124	57
I	128	55
I	133	53
I	138	52
I	143	52
I	148	51
I	152	52
I	157	52
I	162	51
I	167	48
I	171	46
I	176	46
I	181	40
I	186	39
I	190	39
I	196	40
I	200	40
I	205	39
I	209	39
I	214	40
I	219	38
I	224	36



ROUND NUMBER 380 CONTINUED

I	229	35
I	233	33
I	238	33
I	243	34
I	248	33
I	252	32
I	257	30
I	262	29
I	267	28
I	272	27
I	276	26
I	281	26
I	286	25
I	291	24
I	296	24
I	300	24
I	305	23
I	310	21
I	314	18
I	319	19
I	324	19

ROUND NUMBER -- 383

PROJECTILE ASS (CM) --15.552

PROJECTILE TYPE --SPEER, SWC.44

PROJECTILE VELOCITY (MPS) --265.79

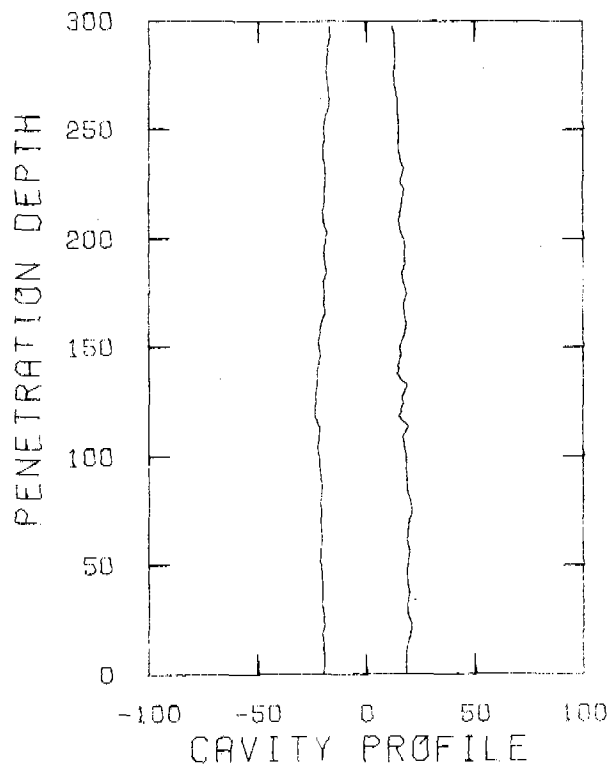
PROJECTILE DIAMETER (CM) -- 10.897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-9	75	75
13	82	82
40	88	88
73	75	76
107	81	81
157	81	81
182	78	78

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	19
4	18
9	18
14	19
18	20
23	20
28	19
32	19
37	20
42	19
47	19
51	20
56	20
61	19
65	20
70	20
75	21
80	20
85	19
89	19
94	19
99	20
103	19
108	19
113	20
117	19
122	20
127	20
132	20
136	18
141	18
146	18
151	18
155	19
160	19
165	18
170	18
174	18
179	18
184	17
188	18
193	18
198	18
203	16
207	17
212	17
217	17
222	18



ROUND NUMBR 383 CONTINUED

I	226	17
I	231	17
I	236	17
I	241	17
I	245	16
I	250	17
I	255	16
I	259	15
I	264	15
I	269	15
I	274	15
I	278	15
I	283	15
I	288	15
I	293	14
I	297	14
I	302	14
I	306	13
I	311	13
I	316	13
I	320	12

ROUND NUMBER -- 455

PROJECTILE MASS (GM) --15.552

PROJECTILE TYPE --SPEER,SWC,44MAG

PROJECTILE VELOCITY (MPS) --306.63

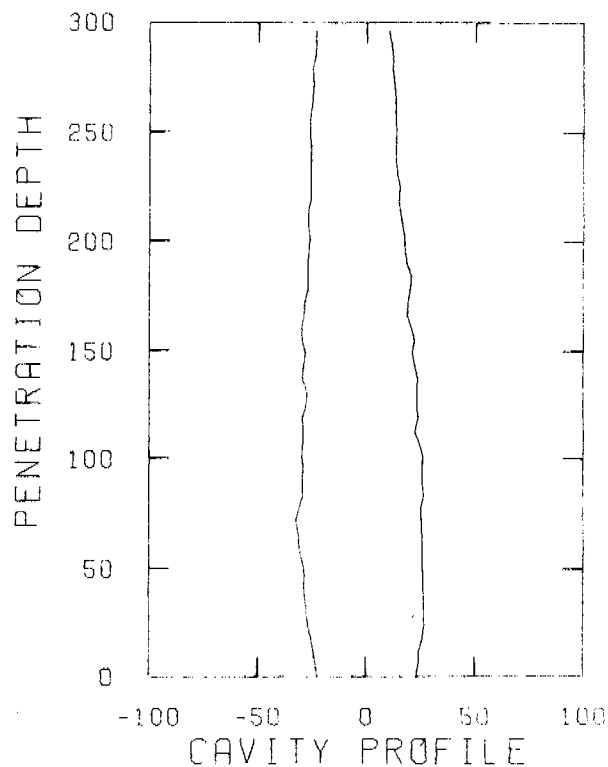
PROJECTILE DIAMETER (CM) -- 10.922

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	78	78
19	78	78
53	84	84
89	85	86
128	73	73
183	68	79
209	60	72

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	22
6	23
11	24
17	25
23	26
29	27
35	27
42	27
47	27
53	27
59	28
65	28
71	28
77	28
83	27
89	27
95	27
100	27
107	26
113	25
119	26
124	25
130	25
136	26
142	25
149	24
154	25
160	25
166	23
172	23
178	23
184	23
190	22
195	21
201	21
207	21
213	21
220	20
225	20
231	19
237	19
243	19
249	19
255	19
261	19
267	18
273	18
279	18



ROUND NUMBER 455 CONTINUED

I	284	17
I	290	17
I	296	16
I	302	16
I		

ROUND NUMBER -- 456

PROJECTILE MASS (GM) --15.552

PROJECTILE TYPE --SPEER,SWC,44MAG

PROJECTILE VELOCITY (MPS) --321.56

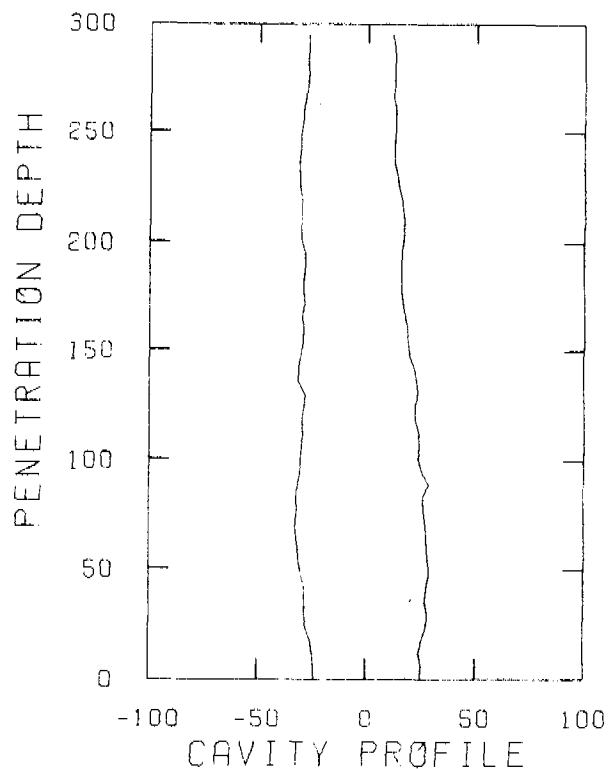
PROJECTILE DIAMETER (CM) -- 10.922

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
4	76	76
22	79	83
55	72	72
94	81	82
129	60	61
189	74	82
218	54	72

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	24
5	24
11	24
17	25
23	27
29	28
35	27
43	28
47	29
53	29
59	29
65	29
70	29
76	29
82	29
88	30
94	27
100	27
106	26
112	26
118	25
124	25
130	25
136	27
142	26
147	24
153	23
159	23
165	23
171	22
177	22
183	22
189	21
195	22
201	23
207	23
212	23
218	23
224	22
230	22
236	21
241	21
248	21
254	21
259	21
266	20
271	19
277	19



ROUND NUBER 456 CONTINUED

I	283	20
I	289	19
I	294	18
I	301	18
I	307	18
I	312	17

ROUND NUMBER -- 382

PROJECTILE MASS (GM) --15.552

PROJECTILE TYPE --SPEER, SWC,44

PROJECTILE VELOCITY (MPS) --348.39

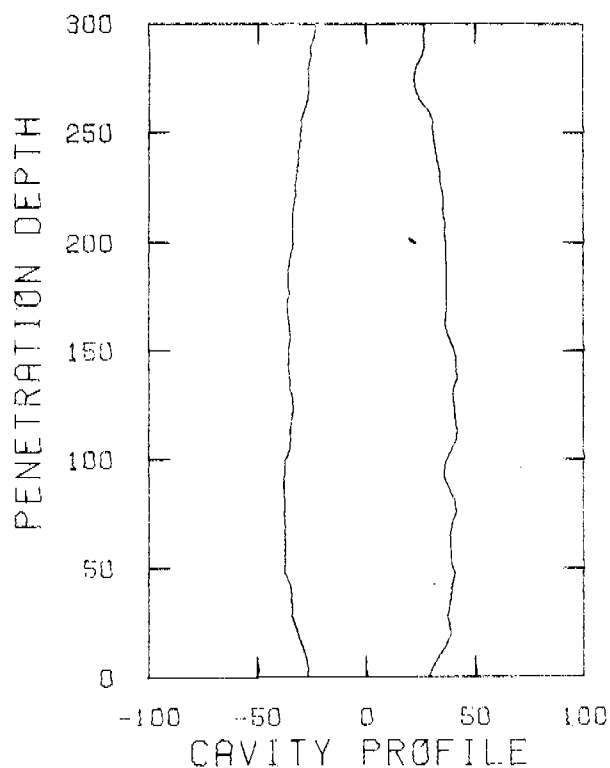
PROJECTILE DIAMETER (CM) -- 10.897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	121	168
20	126	189
57	136	192
96	170	232
134	197	238
185	288	289
208	302	306

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	28
I	4	28
I	9	30
I	14	33
I	18	35
I	23	35
I	28	36
I	33	36
I	37	36
I	42	37
I	47	39
I	52	38
I	56	38
I	61	38
I	66	38
I	71	38
I	75	39
I	80	39
I	85	38
I	90	37
I	95	36
I	99	37
I	104	37
I	108	38
I	113	38
I	118	37
I	123	37
I	128	36
I	132	37
I	137	38
I	142	38
I	147	38
I	151	37
I	156	36
I	161	35
I	165	36
I	170	36
I	175	36
I	180	36
I	185	36
I	189	35
I	194	35
I	199	34
I	203	34
I	208	34
I	213	34
I	218	34
I	222	33



ROUND NUMBER 382 CONTINUED

I	227	32
I	232	32
I	237	31
I	242	31
I	246	30
I	251	29
I	256	29
I	260	27
I	265	25
I	270	24
I	275	23
I	279	24
I	284	25
I	289	26
I	294	25
I	298	25
I	303	23
I	308	22
I	312	21
I		

ROUND NUMBER -- 381

PROJECTILE MASS (GM) --15.552

PROJECTILE TYPE --SPEER, SWC,44

PROJECTILE VELOCITY (MPS) --379.17

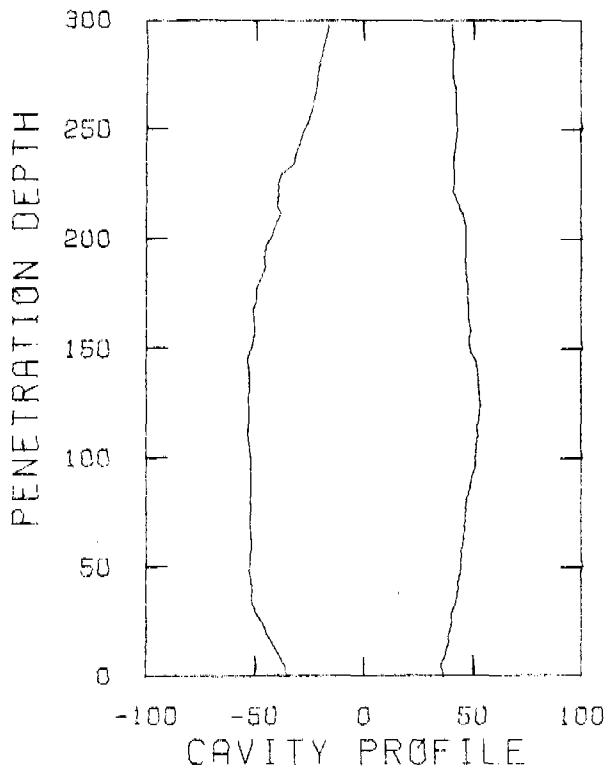
PROJECTILE DIAMETER (CM) -- 10.897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
36	154	260
64	149	207
97	268	287
130	306	315
166	263	269
214	284	303
236	268	287

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	36
4	35
9	38
14	40
18	41
24	43
28	44
33	46
38	47
43	47
48	48
52	48
57	48
62	48
67	49
72	49
76	49
81	49
86	50
91	51
95	51
100	51
105	52
110	52
115	52
120	52
124	53
129	52
134	52
139	52
143	52
148	50
153	49
158	49
163	49
168	49
172	48
177	48
182	47
187	45
191	45
196	45
201	44
206	43
211	41
215	41
220	40
225	40



ROUND NUMBER 301 CONTINUED

I	230	39
I	235	36
I	240	36
I	244	35
I	249	35
I	254	33
I	259	32
I	263	32
I	268	31
I	273	30
I	278	30
I	282	29
I	287	29
I	292	28
I	297	28
I	302	27
I	306	27
I	312	25
I	316	24
I	321	22
I	326	22

ROUND NUMBER -- ~~34~~ 454

PROJECTILE MASS (GM) --15.552

PROJECTILE TYPE --SPEER,SWC,44MAG

PROJECTILE VELOCITY (MPS) --410.57

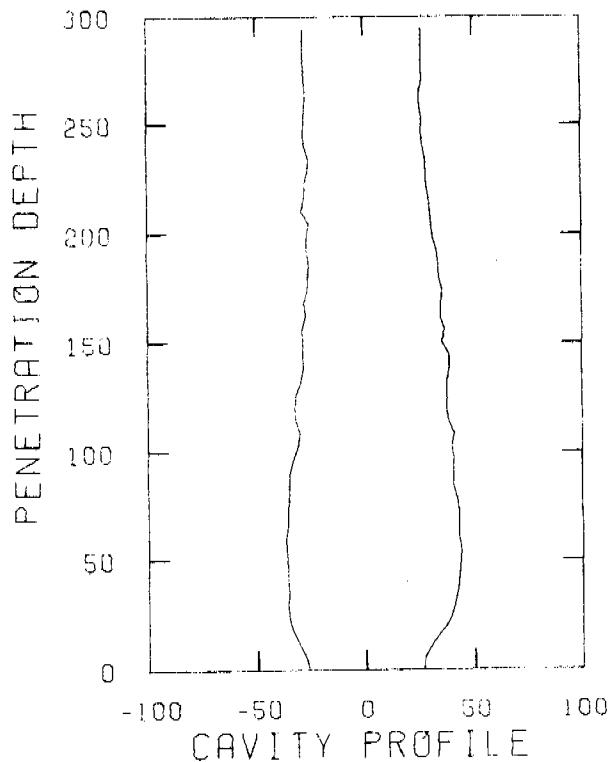
PROJECTILE DIAMETER (CM) -- 10.922

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-2	82	83
29	77	77
67	85	86
108	88	90
151	67	79
213	84	85
243	75	75

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	26
6	27
12	30
18	34
24	37
30	38
36	38
42	39
48	39
54	40
60	39
66	39
72	39
78	38
84	37
90	37
96	37
102	35
108	35
114	35
120	34
126	34
132	33
138	33
144	33
150	31
156	32
162	30
168	31
174	30
180	29
186	29
192	29
198	28
204	28
210	29
216	28
222	28
228	27
234	26
240	27
246	27
252	27
258	26
264	26
270	27
276	27
282	27



ROUND NUMBER 454 CONTINUED

I	288	27
I	294	27
I	300	27
I	306	25
I	312	25
I		

ROUND NUMBER -- 522

PROJECTILE MASS (GM) --12.960

PROJECTILE TYPE --SPEER, JHP,45CAL

PROJECTILE VELOCITY (MPS) --188.98

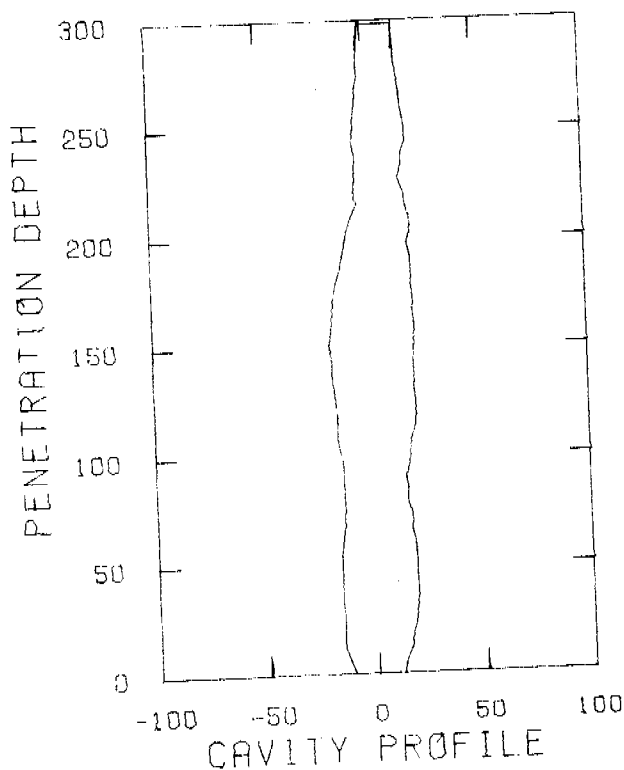
PROJECTILE DIAMETER (CM) -- 11.506

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-15	80	83
0	91	91
21	98	98
41	88	93
65	81	92
99	91	102
115	129	129

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	11
I	6	13
I	12	15
I	18	15
I	23	16
I	30	17
I	35	17
I	41	17
I	48	17
I	53	17
I	59	16
I	65	15
I	72	15
I	78	14
I	83	14
I	89	14
I	95	15
I	101	16
I	107	17
I	113	18
I	119	18
I	125	18
I	131	18
I	137	19
I	143	19
I	149	19
I	155	19
I	161	18
I	167	18
I	173	18
I	179	17
I	185	16
I	191	15
I	197	14
I	202	14
I	209	13
I	214	11
I	220	11
I	227	9
I	232	10
I	238	10
I	244	12
I	250	12
I	256	11
I	262	10
I	266	9
I	274	8
I	280	8



ROUND NUMBER 522 CONTINUED

I	304	7
I	310	7
I	315	5
I	286	8
I	292	7
I	298	7

RUND NUMBER -- 521

PROJECTILE MASS (GM) --12.960

PROJECTILE TYPE --SPEER, JHP,45CAL

PROJECTILE VELOCITY (MPS) --283.16

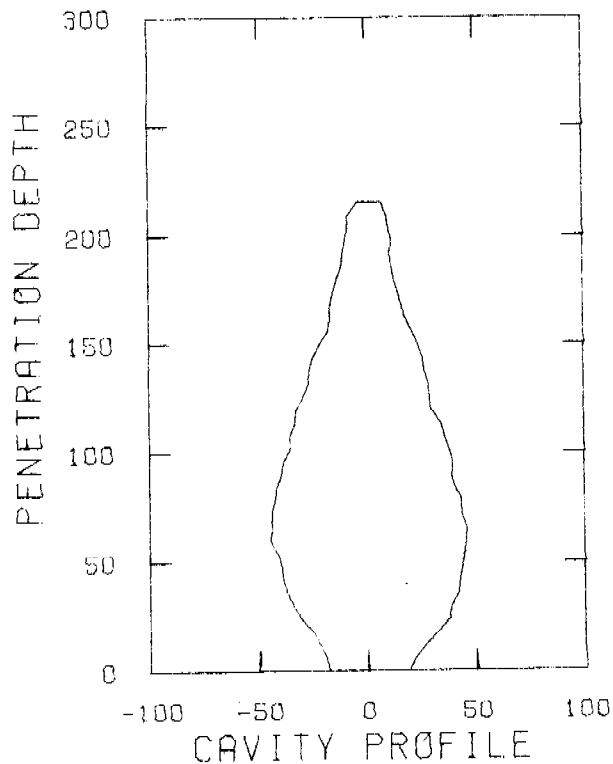
PROJECTILE DIAMETER (CM) -- 11.506

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-9	93	93
11	342	342
34	298	298
59	246	247
83	301	303
111	270	274
123	276	277

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	18
5	20
12	24
18	28
23	33
30	36
35	39
42	40
47	41
53	43
60	45
66	45
71	43
77	42
86	41
89	39
96	38
101	36
107	35
113	33
119	31
125	28
131	27
137	26
143	25
149	22
155	19
161	17
167	16
173	14
179	12
185	11
191	10
197	10
203	9
209	8
215	5



RUND NUMBER -- 520

PROJECTILE MASS (GM) -- 12.960

PROJECTILE TYPE -- SPEER, JHP, 45CAL

PROJECTILE VELOCITY (MPS) -- 319.43

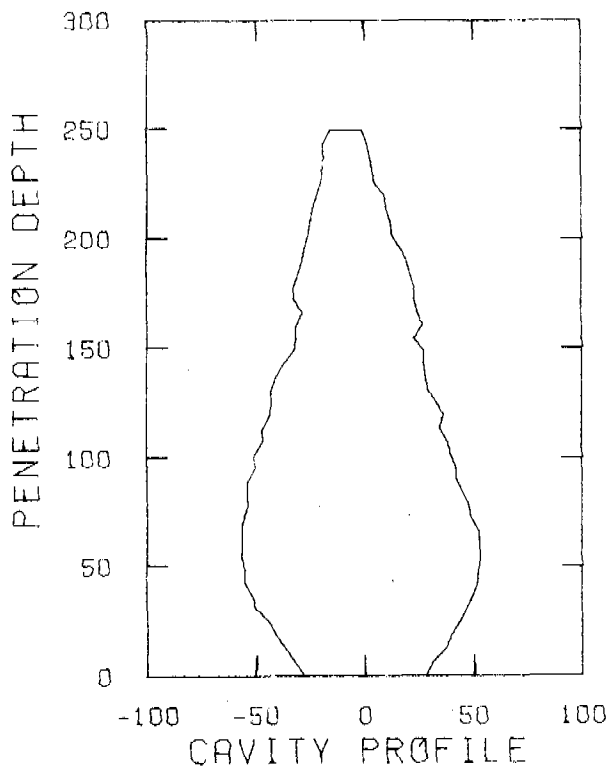
PROJECTILE DIAMETER (CM) -- 11.506

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-4	134	134
13	331	331
42	314	314
70	168	168
95	150	150
128	292	293
141	281	287

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	28
6	31
11	36
17	40
24	43
29	48
36	50
41	53
47	53
53	54
59	54
65	54
71	52
77	50
83	49
89	47
95	46
101	45
107	42
113	40
118	39
125	37
130	35
136	34
142	32
148	29
154	27
160	28
166	26
172	27
178	27
184	25
190	23
196	21
202	19
208	18
214	16
219	15
226	12
231	11
237	10
243	9
249	7



ROUND NUMBER -- 519

PROJECTILE MASS (GM) --12.960

PROJECTILE TYPE --SPEER, JHP, 45CAL

PROJECTILE VELOCITY (MPS) --374.29

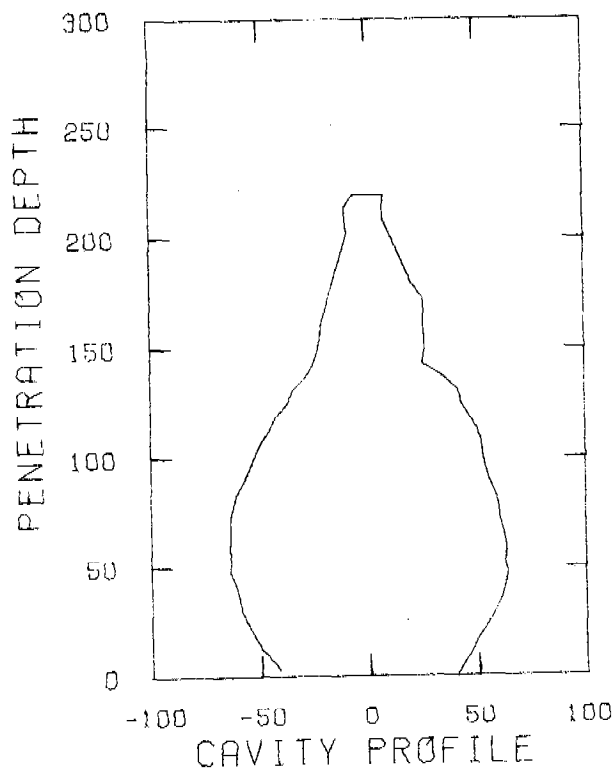
PROJECTILE DIAMETER (CM) -- 11.506

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-4	158	159
19	442	442
50	158	158
77	187	189
102	206	207
133	201	201
145	196	198

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	39
I	6	43
I	11	48
I	17	51
I	23	55
I	29	58
I	35	60
I	41	62
I	47	63
I	53	63
I	59	64
I	65	62
I	71	62
I	77	61
I	83	59
I	89	56
I	95	54
I	101	52
I	107	50
I	113	47
I	119	44
I	125	40
I	131	37
I	137	31
I	143	25
I	148	24
I	155	23
I	161	23
I	166	22
I	172	21
I	178	18
I	184	15
I	190	13
I	196	11
I	202	9
I	208	8
I	214	8
I	220	6
I		



ROUND NUMBER -- 538

PROJECTILE MASS (GM) --12.960

PROJECTILE TYPE --SPEER, JHP,45CAL

PROJECTILE VELOCITY (MPS) --460.25

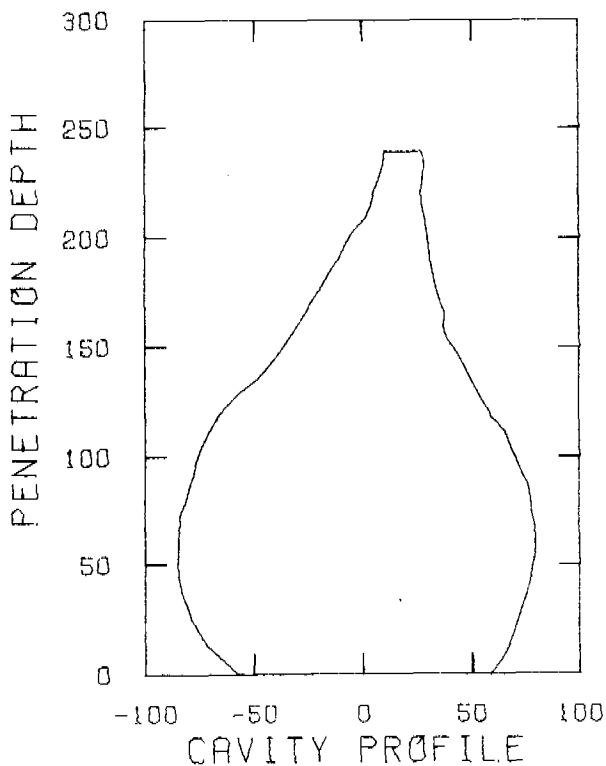
PROJECTILE DIAMETER (CM) -- 11.506

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-4	125	126
37	245	245
65	236	236
93	259	281
120	273	280
151	265	268
163	244	244

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	58
6	64
12	69
18	72
24	75
31	73
36	79
43	81
49	81
55	82
61	82
67	81
73	81
79	79
86	78
92	75
98	73
104	70
110	68
116	63
122	59
129	54
135	48
141	44
147	40
154	36
159	33
165	31
172	28
178	25
184	23
190	20
196	19
202	16
209	13
215	11
221	10
227	10
233	9
239	8



ROUND NUMBER -- 514

PROJECTILE MASS (GM) --14.580

PROJECTILE TYPE --SPEER,JHP,45CAL

PROJECTILE VELOCITY (MPS) --291.08

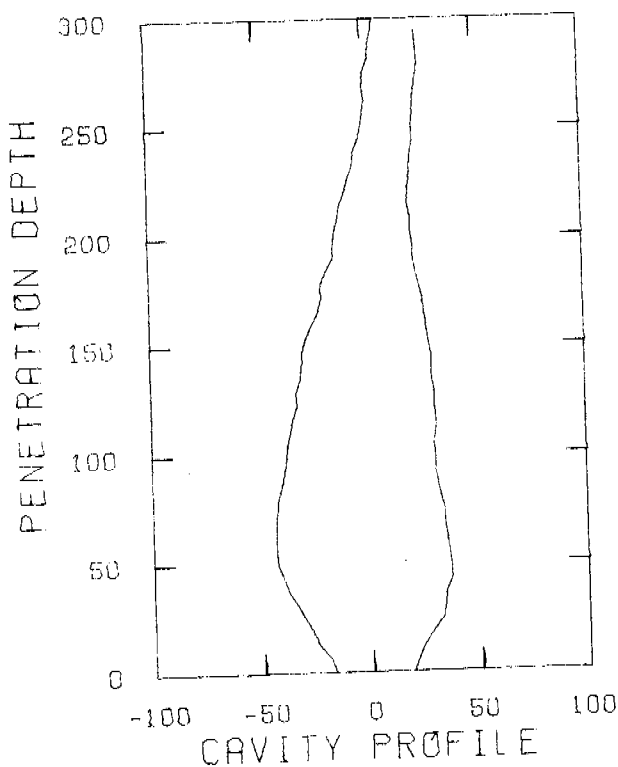
PROJECTILE DIAMETER (CM) -- 11.506

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-4	82	85
17	132	135
45	122	125
71	147	150
99	114	115
134	107	107
151	117	117

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	18
I	6	20
I	12	24
I	18	28
I	24	31
I	30	34
I	36	36
I	42	38
I	49	40
I	55	40
I	61	39
I	67	39
I	73	38
I	79	37
I	85	35
I	92	34
I	98	34
I	104	33
I	110	33
I	116	32
I	122	31
I	128	31
I	134	29
I	141	29
I	147	29
I	153	27
I	159	26
I	165	24
I	171	22
I	177	22
I	183	20
I	190	18
I	196	18
I	202	17
I	208	16
I	214	15
I	220	14
I	226	14
I	232	12
I	239	13
I	244	12
I	251	11
I	257	11
I	263	11
I	269	11
I	275	12
I	281	11
I	288	10



ROUND NUMBER 514 CONTINUED

I	294	9
I	300	9
I	306	9
I	312	9
I	318	8
I	324	7

ROUND NUMBER -- 513

PROJECTILE MASS (GM) --14.580

PROJECTILE TYPE --SPEER,JHP,45CAL

PROJECTILE VELOCITY (MPS) --338.33

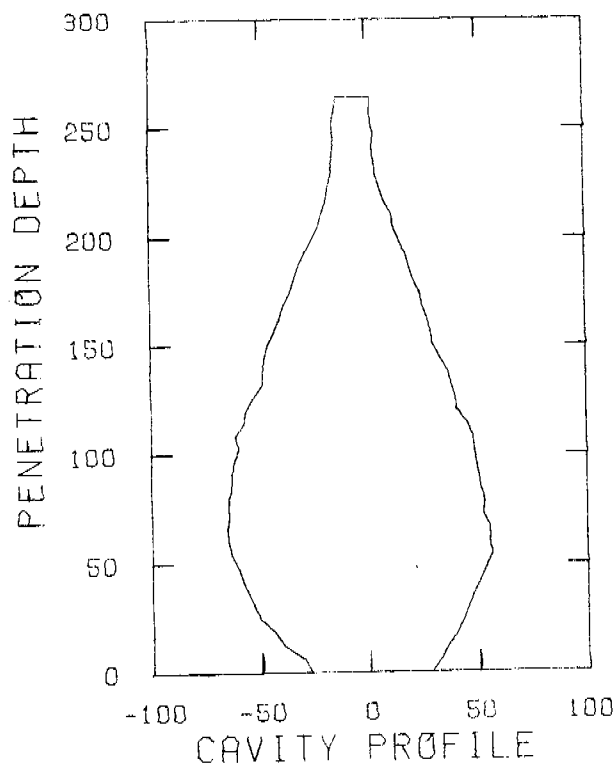
PROJECTILE DIAMETER (CM) -- 11.506

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-1	105	106
21	287	287
51	243	244
78	248	249
104	268	272
136	243	248
150	260	261

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	27
5	31
11	37
17	41
24	46
30	49
36	51
42	54
48	57
54	59
60	60
66	60
72	58
78	58
84	57
90	56
96	55
102	53
108	54
114	51
120	48
126	46
132	43
138	42
144	40
150	37
156	35
162	33
168	31
174	29
180	27
186	25
192	23
198	19
204	17
210	15
216	13
222	11
228	9
234	9
240	8
246	9
252	8
258	7
264	7



ROUND NUMBER -- 512

PROJECTILE MASS (GM) --14.580

PROJECTILE TYPE --SPEER,JHP,45CAL

PROJECTILE VELOCITY (MPS) --371.25

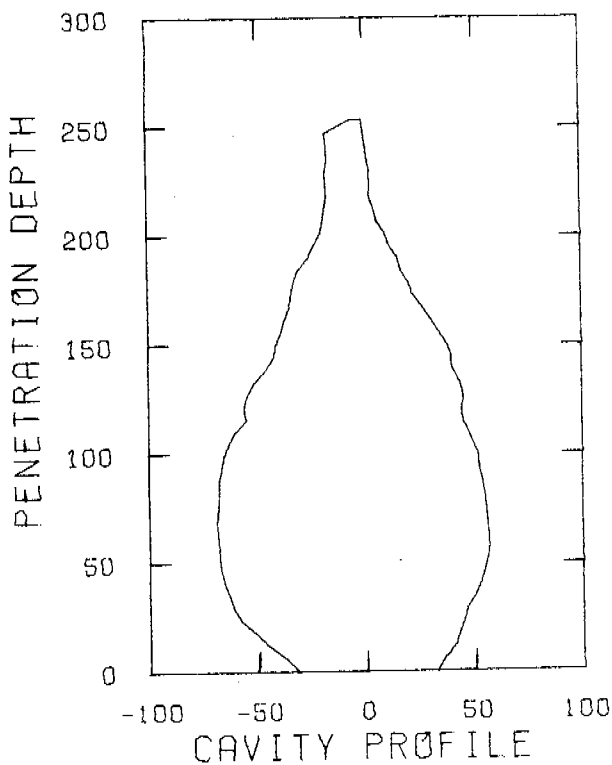
PROJECTILE DIAMETER (CM) -- 11.506

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	115	115
22	303	304
54	281	283
82	288	290
109	262	264
143	258	258
156	280	280

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	31
5	36
11	43
17	47
22	51
29	53
34	56
40	59
46	60
51	61
57	62
63	62
69	62
74	61
80	61
86	60
92	59
98	58
103	56
109	53
115	49
121	50
126	49
132	47
138	43
144	40
149	39
155	36
161	33
166	30
172	28
178	26
184	23
190	20
195	17
201	14
207	12
212	11
218	9
224	9
230	9
235	8
241	8
247	8
253	2



ROUND NUMBER -- 511

PROJECTILE MASS (GM) --14.580

PROJECTILE TYPE --SPEER,JHP,45CAL

PROJECTILE VELOCITY (MPS) --389.23

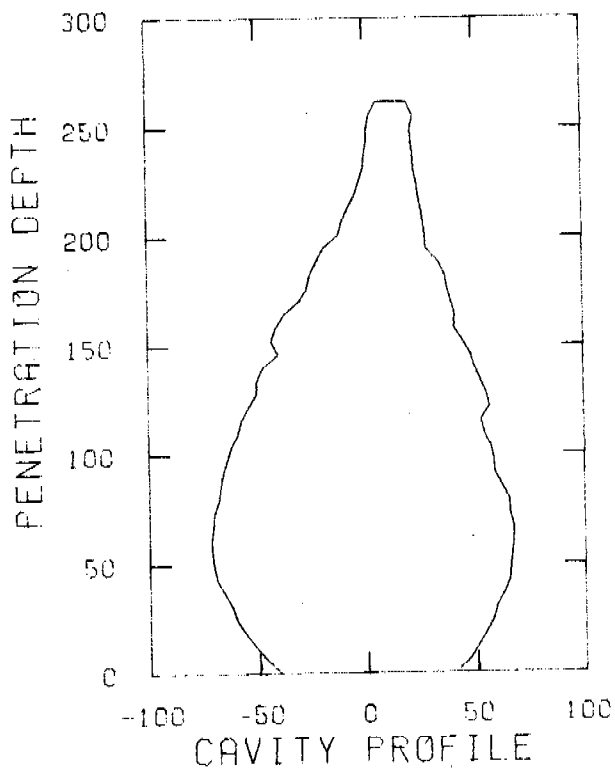
PROJECTILE DIAMETER (CM) -- 11.506

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	93	93
25	211	211
58	253	256
86	273	274
113	325	325
147	280	282
160	296	296

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	40
I	6	46
I	12	50
I	18	55
I	24	58
I	30	61
I	36	64
I	42	67
I	48	68
I	55	68
I	61	69
I	67	69
I	73	68
I	79	66
I	85	64
I	91	62
I	97	61
I	103	59
I	109	56
I	115	54
I	121	55
I	128	52
I	134	51
I	140	48
I	146	44
I	152	43
I	158	40
I	164	39
I	170	34
I	176	32
I	182	31
I	188	28
I	194	23
I	201	19
I	207	18
I	213	16
I	219	14
I	225	13
I	231	11
I	237	11
I	243	10
I	249	9
I	255	10
I	261	6



ROUND NUMBER -- 510

PROJECTILE MASS (GM) --14.580

PROJECTILE TYPE --SPEER,JHP,45CAL

PROJECTILE VELOCITY (MPS) --423.37

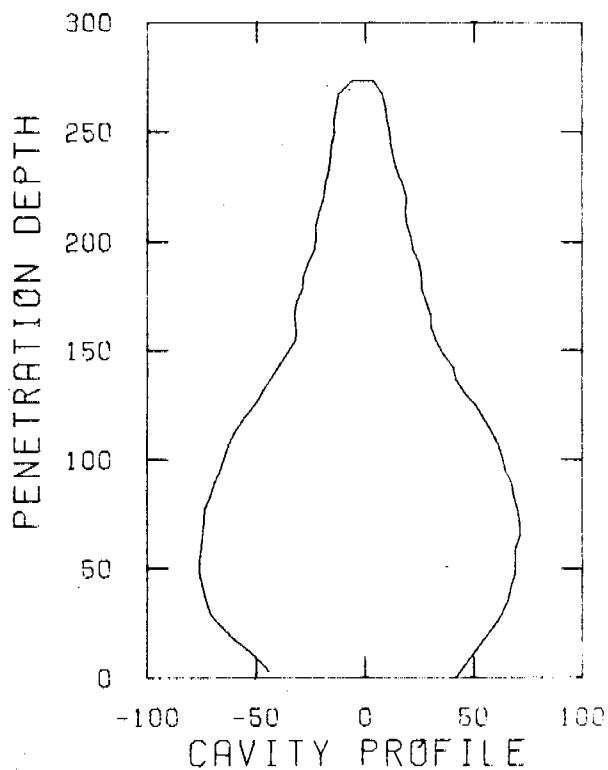
PROJECTILE DIAMETER (CM) -- 11.506

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	83	83
28	310	310
62	357	363
90	381	391
118	372	380
152	337	338
166	293	293

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	41
I	5	46
I	11	51
I	17	57
I	23	63
I	29	67
I	35	69
I	41	70
I	47	72
I	53	72
I	59	72
I	65	73
I	71	72
I	77	72
I	83	69
I	89	68
I	95	65
I	101	63
I	107	61
I	113	58
I	119	54
I	125	50
I	130	46
I	136	42
I	142	40
I	148	35
I	154	32
I	160	30
I	166	31
I	172	29
I	178	27
I	184	27
I	190	25
I	196	22
I	202	21
I	207	20
I	213	19
I	219	18
I	225	17
I	231	15
I	237	14
I	243	13
I	249	12
I	255	11
I	261	11
I	267	9
I	273	5



ROUND NUMBER -- 517

PROJECTILE MASS (GM) --12.960

PROJECTILE TYPE --SPEER, SWC,45CAL

PROJECTILE VELOCITY (MPS) --313.33

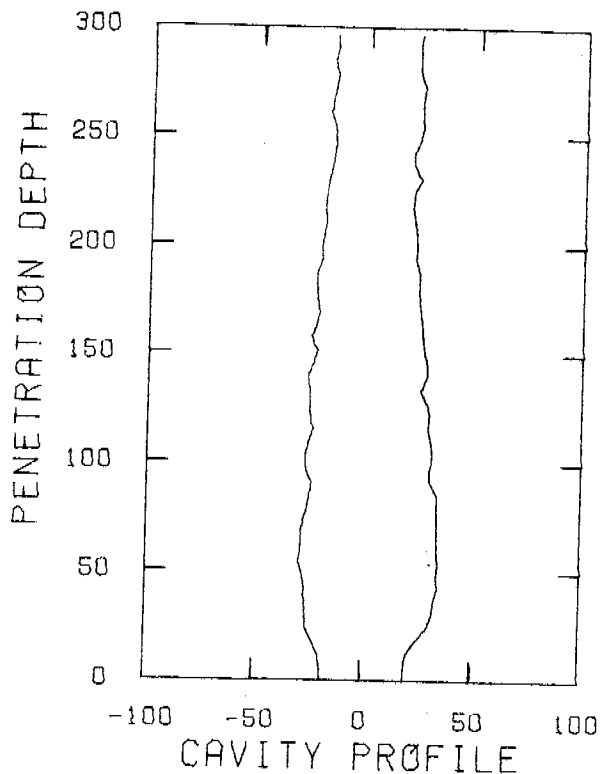
PROJECTILE DIAMETER (CM) -- 33.506

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-2	92	93
23	97	97
55	88	88
88	90	90
125	95	95
176	92	94
201	67	69

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	19
I	5	19
I	11	20
I	17	23
I	24	27
I	30	29
I	36	29
I	42	30
I	48	31
I	54	32
I	60	31
I	66	31
I	72	31
I	78	29
I	84	29
I	90	27
I	96	28
I	102	29
I	108	28
I	114	26
I	121	27
I	126	26
I	132	25
I	139	27
I	145	26
I	151	24
I	157	25
I	163	24
I	169	23
I	175	23
I	181	23
I	187	23
I	193	21
I	199	21
I	205	20
I	211	20
I	217	20
I	223	20
I	229	21
I	235	19
I	241	18
I	247	19
I	253	20
I	259	21
I	266	20
I	272	20
I	277	19
I	284	19



ROUND NUMBER 517 CONTINUED

I	290	18
I	296	19
I	302	18
I	308	19
I	314	17
I	319	16

ROUND NUMBER -- 516

PROJECTILE MASS (GM) --12.960

PROJECTILE TYPE --SPEER, SWC, 45CAL

PROJECTILE VELOCITY (MPS) --369.42

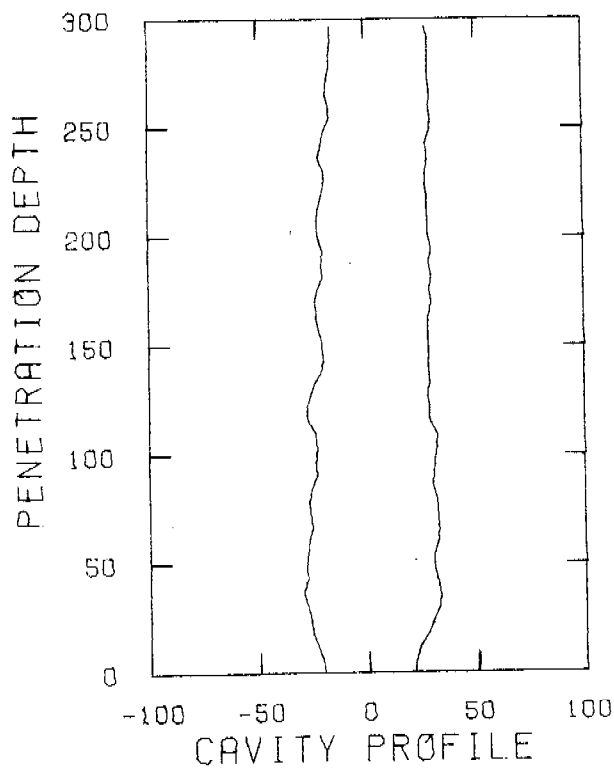
PROJECTILE DIAMETER (CM) -- 11.506

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	94	94
27	90	90
64	104	104
106	91	93
151	74	80
213	93	93
243	93	93

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	20
5	21
11	23
18	26
24	28
30	30
36	31
42	30
48	29
54	29
60	29
66	29
72	29
78	29
84	27
90	26
96	27
103	27
109	27
115	28
121	28
127	26
133	26
139	24
145	24
151	24
157	25
163	25
169	26
175	25
181	24
187	24
193	24
199	25
205	25
211	25
217	24
223	23
229	23
236	25
242	24
248	24
254	23
260	22
266	23
272	23
278	22
284	22



ROUND NUMBER 516 CONTINUED

I	290	22
I	296	21
I	302	21
I	308	21
I	314	20
I	320	19

ROUND NUMBER -- 515

PROJECTILE MASS (GK) --12.960

PROJECTILE TYPE --SPEER, SWC,45CAL

PROJECTILE VELOCITY (MPS) --454.15

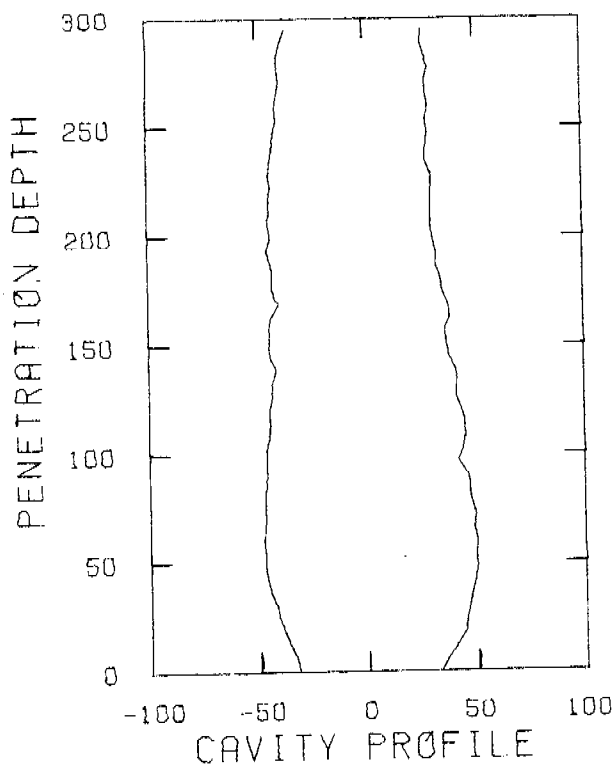
PROJECTILE DIAMETER (CM) -- 11.506

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	89	89
34	84	87
76	84	94
118	88	93
163	102	106
219	136	137
245	143	157

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	32
I	6	35
I	12	38
I	18	41
I	24	43
I	30	44
I	36	46
I	42	48
I	48	48
I	54	48
I	60	49
I	66	48
I	72	48
I	78	47
I	84	46
I	90	46
I	96	43
I	102	45
I	108	45
I	114	44
I	120	43
I	126	42
I	132	42
I	138	41
I	144	41
I	150	40
I	156	40
I	162	41
I	168	38
I	174	39
I	180	38
I	186	37
I	192	38
I	198	37
I	204	37
I	210	37
I	216	36
I	222	37
I	228	37
I	234	35
I	240	35
I	246	35
I	252	34
I	258	35
I	264	34
I	270	33
I	276	34
I	282	33



ROUND NUMBER 515 CONTINUED

I	288	32
I	294	31
I	300	29
I	307	28
I	312	27
I		

ROUND NUMBER -- 526

PROJECTILE MASS (GM) --16.200

PROJECTILE TYPE --SPEER, SWC,45CAL

PROJECTILE VELOCITY (MPS) --345.95

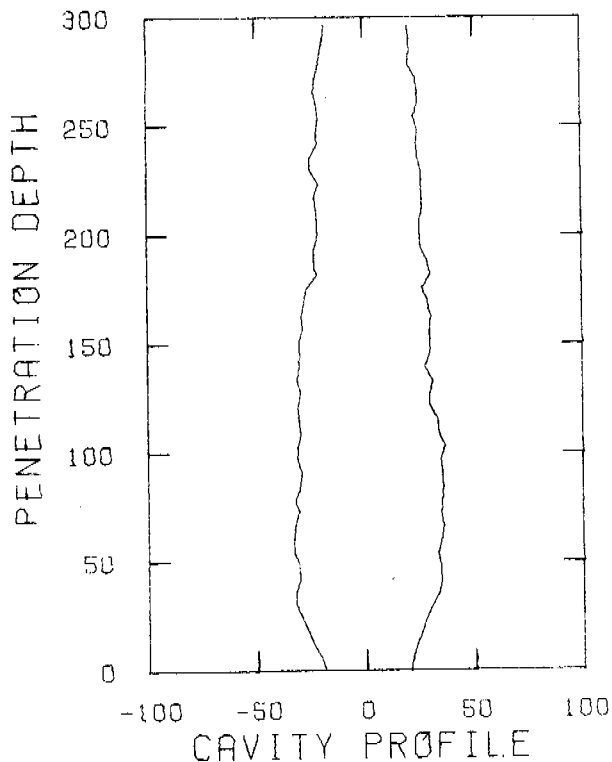
PROJECTILE DIAMETER (CM) -- 11.506

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-4	84	84
24	87	89
61	91	91
97	86	86
139	90	91
197	93	93
224	95	95

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	19
I	6	21
I	12	23
I	18	26
I	24	28
I	30	31
I	36	33
I	42	32
I	48	32
I	54	33
I	60	34
I	66	34
I	72	32
I	78	33
I	84	32
I	90	32
I	97	33
I	102	33
I	108	31
I	114	31
I	121	30
I	127	29
I	132	31
I	139	29
I	145	29
I	151	30
I	157	29
I	163	29
I	169	28
I	175	26
I	181	26
I	187	26
I	193	24
I	199	23
I	205	23
I	211	24
I	217	24
I	223	23
I	229	25
I	235	24
I	242	22
I	247	23
I	253	21
I	259	23
I	265	23
I	272	22
I	277	20
I	283	20



ROUND NUMBER 526 CONTINUED

I	290	19
I	296	18
I	302	19
I	307	18
I	314	17
I	320	16
I	326	17
I		

ROUND NUMBER -- 525

PROJECTILE MASS (GM) --16.200

PROJECTILE TYPE --SPEER, SWC,45CAL

PROJECTILE VELOCITY (MPS) --373.08

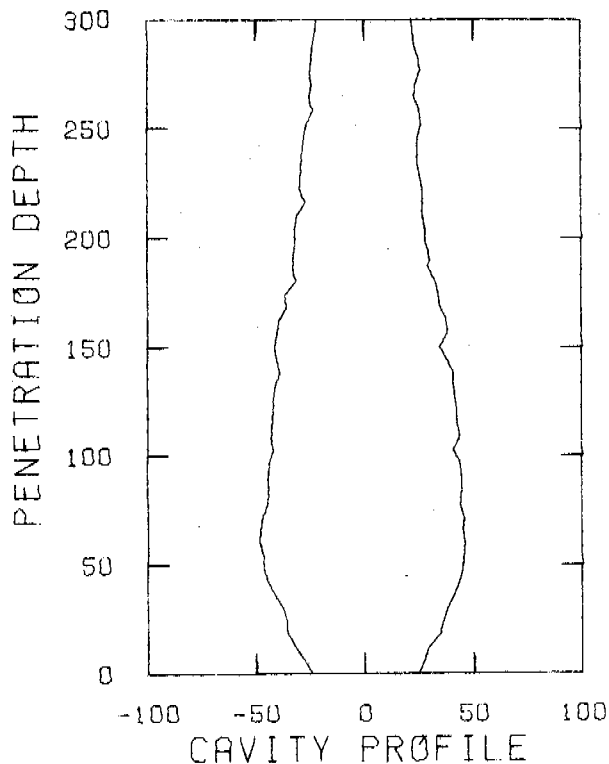
PROJECTILE DIAMETER (CM) -- 11.506

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-2	94	95
27	88	89
64	97	97
102	82	82
143	78	78
200	77	80
226	82	88

1 CAVITY MEASUREMENTS

1 PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
1 0	24
1 5	27
1 11	30
1 18	34
1 24	36
1 30	38
1 36	41
1 42	43
1 47	45
1 54	46
1 60	47
1 66	46
1 72	46
1 77	44
1 84	44
1 90	44
1 96	43
1 102	41
1 108	43
1 113	42
1 120	42
1 126	41
1 131	40
1 138	39
1 144	39
1 149	37
1 156	39
1 162	38
1 168	35
1 173	35
1 179	32
1 185	31
1 192	31
1 198	29
1 204	29
1 210	28
1 215	27
1 221	28
1 228	27
1 233	26
1 240	26
1 245	26
1 251	26
1 257	24
1 263	24
1 269	23
1 275	25
1 281	24



ROUND NUMBER 525 CONTINUED

1	287	23
1	293	22
1	299	21
1	305	20
1	311	20
1	317	20
1	323	18
1		

ROUND NUMBER -- 524

PROJECTILE MASS (GM) --16.200

PROJECTILE TYPE --SPEER, SWC,45CAL

PROJECTILE VELOCITY (MPS) --397.76

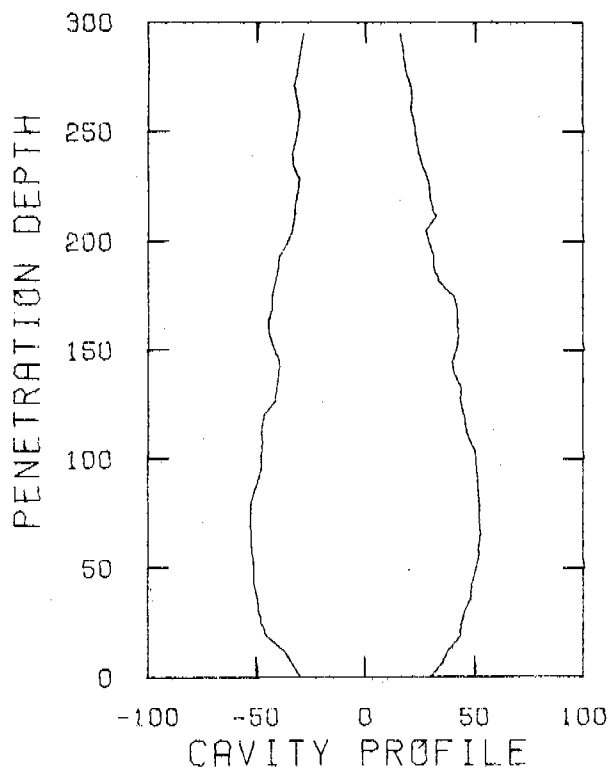
PROJECTILE DIAMETER (CM) -- 11.506

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-1	94	95
31	105	105
68	106	106
105	98	99
147	104	104
201	97	98
226	94	95

I CAVITY MEASUREMENTS

I	I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	29
I	5	34
I	11	37
I	18	43
I	24	45
I	30	47
I	36	49
I	42	50
I	48	50
I	54	51
I	60	52
I	66	52
I	72	52
I	78	52
I	84	51
I	90	50
I	96	49
I	102	49
I	108	47
I	114	46
I	120	45
I	126	42
I	132	42
I	138	40
I	144	39
I	150	41
I	156	43
I	162	43
I	168	42
I	174	41
I	181	37
I	186	35
I	193	35
I	199	32
I	204	30
I	211	32
I	217	31
I	222	30
I	228	29
I	235	29
I	241	28
I	247	27
I	253	26
I	259	25
I	265	26
I	271	26
I	277	24
I	283	23



ROUND NUMBER 524 CONTINUED

I	289	22
I	295	21
I	301	21
I	307	20
I	312	19
I		

ROUND NUMBER -- 523

PROJECTILE MASS (GR) --16.200

PROJECTILE TYPE --SPEER, SNC,45CAL

PROJECTILE VELOCITY (MPS) --422.15

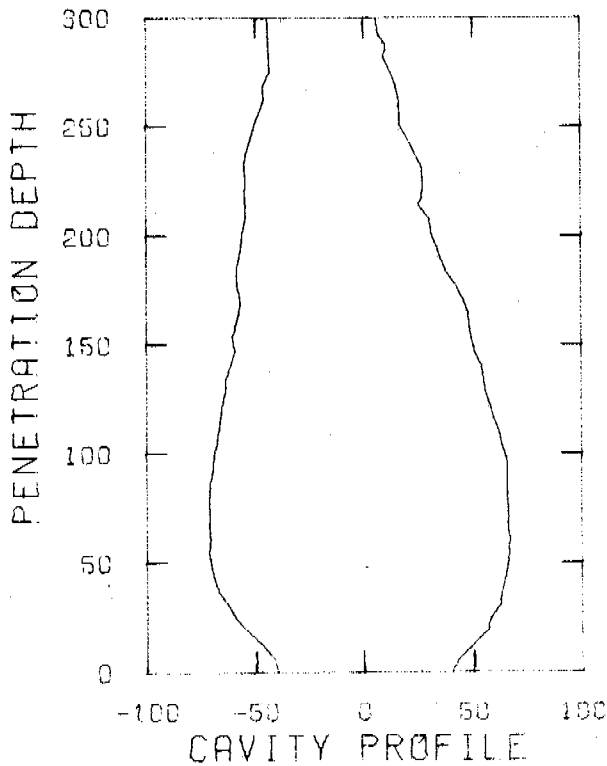
PROJECTILE DIAMETER (CM) -- 11.506

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM ²)	CROSS-SECT AREA (MM ²)
0	103	103
31	128	128
70	132	132
106	130	131
141	135	135
190	122	125
212	107	109

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	40
I	6	42
I	12	48
I	13	54
I	24	58
I	30	62
I	36	65
I	42	67
I	48	68
I	55	69
I	61	69
I	67	68
I	73	68
I	79	68
I	85	68
I	91	67
I	97	67
I	103	65
I	110	64
I	116	62
I	122	61
I	128	59
I	134	58
I	140	57
I	146	54
I	152	54
I	158	53
I	165	52
I	171	51
I	177	50
I	183	48
I	189	46
I	195	44
I	201	43
I	208	41
I	214	39
I	220	40
I	226	40
I	232	40
I	238	38
I	244	35
I	250	33
I	256	31
I	262	30
I	269	30
I	275	27
I	281	26
I	287	26



ROUND NUMBER 523 CONTINUED

I	293	25
I	299	24
I	305	23
I	311	20
I	317	19
I	323	16

ROUND NUMBER -- 484

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE -- SUPERVEL JHP 38SP

PROJECTILE VELOCITY (MPS) -- 241.10

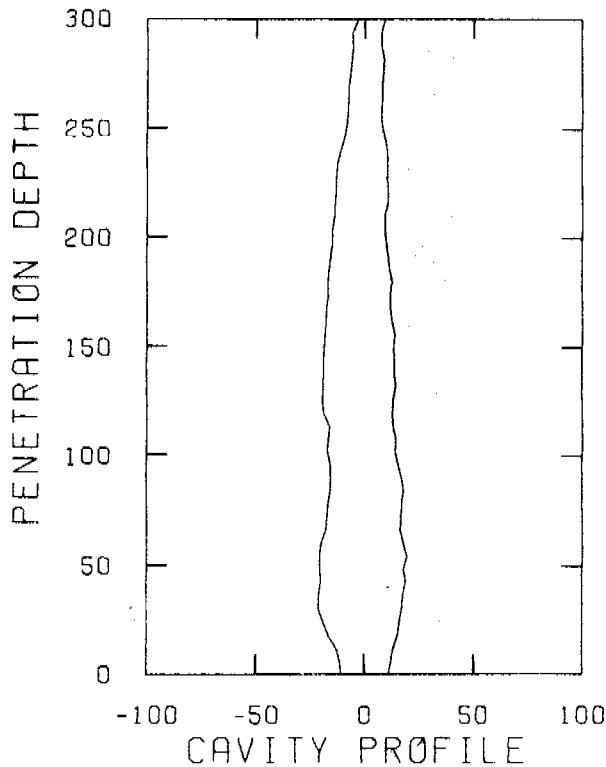
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-10	42	42
9	50	51
33	63	63
59	46	47
86	48	48
125	47	49
142	48	53

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	10
I	5	11
I	11	13
I	17	15
I	23	17
I	29	19
I	35	19
I	42	19
I	47	19
I	53	20
I	60	18
I	66	17
I	71	16
I	77	16
I	83	16
I	89	16
I	96	15
I	102	15
I	107	15
I	113	14
I	119	15
I	125	16
I	131	16
I	138	16
I	143	16
I	149	15
I	155	16
I	161	14
I	167	14
I	174	14
I	179	14
I	185	13
I	191	13
I	198	12
I	203	11
I	209	11
I	215	12
I	221	11
I	227	11
I	233	11
I	239	10
I	245	9
I	251	7
I	257	7
I	264	7
I	269	7
I	275	7
I	281	7



ROUND NUMBER 484 CONTINUED

I	287	6
I	293	6
I	299	6
I	305	6
I	311	5
I		

ROUND NUMBER -- 483

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --SUPERVEL,JHP,38SP

PROJECTILE VELOCITY (MPS) --278.59

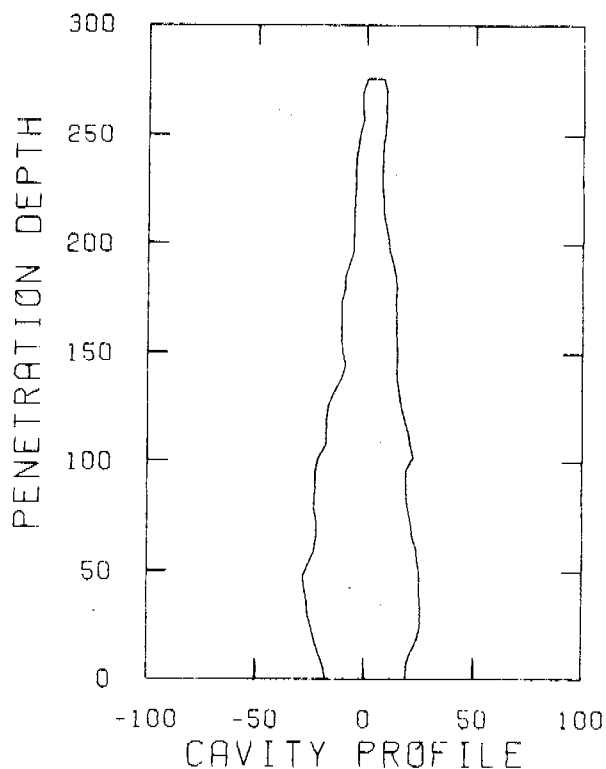
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-8	52	52
11	51	51
39	99	99
65	92	93
91	83	86
128	99	99
143	96	97

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	18
I	6	19
I	12	21
I	18	23
I	24	25
I	30	26
I	35	25
I	42	26
I	48	26
I	54	24
I	60	23
I	66	21
I	72	21
I	78	21
I	83	20
I	90	20
I	95	20
I	102	21
I	107	19
I	114	18
I	120	17
I	125	16
I	132	14
I	137	12
I	143	11
I	150	12
I	156	12
I	162	12
I	168	12
I	173	12
I	179	11
I	185	11
I	191	9
I	197	8
I	203	7
I	209	6
I	215	6
I	221	6
I	227	5
I	233	5
I	239	5
I	245	5
I	251	5
I	257	4
I	263	5
I	269	5
I	275	3



ROUND NUMBER -- 482

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --SUPERVEL JHP,38SP

PROJECTILE VELOCITY (MPS) --301.14

PROJECTILE DIAMETER (CM) -- 9.068

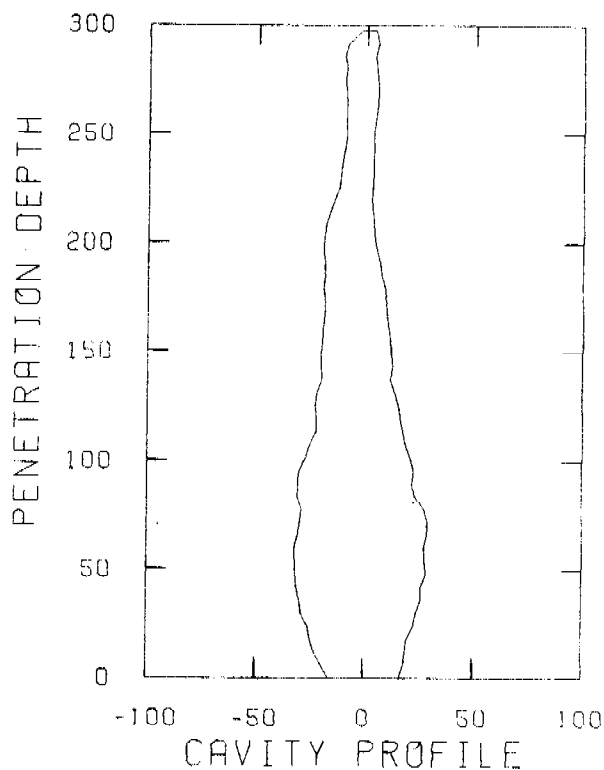
PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	54	54
15	58	58
42	98	99
69	70	75
96	73	77
132	89	94
149	78	86

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	16
I	5	18
I	11	20
I	17	22
I	23	24
I	29	26
I	35	28
I	41	28
I	47	30
I	53	29
I	59	29
I	65	29
I	71	29
I	77	28
I	83	27
I	89	26
I	95	26
I	101	23
I	107	21
I	113	19
I	119	19
I	125	18
I	131	17
I	137	15
I	143	16
I	148	16
I	155	15
I	161	14
I	166	14
I	172	13
I	178	14
I	184	13
I	190	12
I	196	12
I	202	11
I	208	10
I	214	9
I	220	8
I	226	7
I	232	7
I	238	7
I	244	6
I	250	6
I	255	6
I	262	7
I	268	7
I	274	7
I	280	6

482



678

ROUND NUMBER 482 CONTINUED

1	285	7
1	291	6
1	297	3

ROUND NUMBER -- 481

PROJECTILE MASS (GM) -- 7.120

PROJECTILE TYPE --SUPERVEL,JHP,385P

PROJECTILE VELOCITY (MPS) --350.52

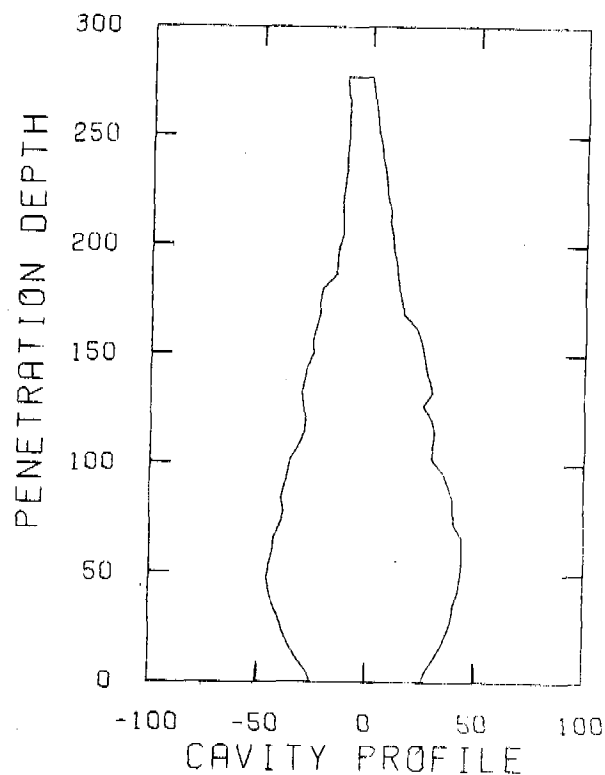
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
6	67	68
20	160	160
50	168	180
79	131	172
107	112	138
142	145	145
157	167	177

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	25
5	27
11	32
17	35
23	38
30	40
35	41
41	43
48	44
54	44
60	43
66	43
72	40
78	38
84	39
90	37
96	35
102	32
108	30
114	29
120	28
126	27
132	30
138	28
144	27
150	25
156	24
162	22
168	19
174	18
180	17
186	13
192	13
198	12
204	11
210	10
216	11
222	10
228	9
234	8
240	8
246	7
252	6
258	6
264	5
270	5
276	5



ROUND NUMBER -- 480

PROJECTILE MASS (GM) -- 7.120

PROJECTILE TYPE --SUPERVEL JHP,30SP

PROJECTILE VELOCITY (MPS) --378.56

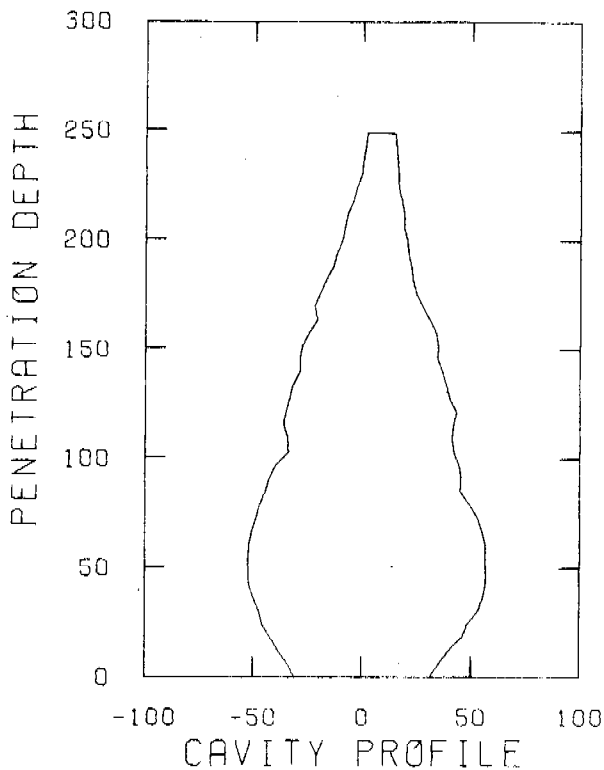
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-2	72	72
24	163	163
54	174	179
82	133	147
109	170	170
139	163	163
153	160	164

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	31
I	6	34
I	12	39
I	18	44
I	24	47
I	30	50
I	36	52
I	42	54
I	48	54
I	54	54
I	60	54
I	66	52
I	73	50
I	78	48
I	85	44
I	91	44
I	97	42
I	103	38
I	109	37
I	115	39
I	121	39
I	127	36
I	133	35
I	139	32
I	145	31
I	151	30
I	158	29
I	163	25
I	170	24
I	176	21
I	182	19
I	188	17
I	194	16
I	200	14
I	206	13
I	212	12
I	218	10
I	224	9
I	230	8
I	236	7
I	243	6
I	248	6



ROUND NUMBER -- 479

PROJECTILE MASS (GM) -- 7.120

PROJECTILE TYPE --SUPERVEL,JHP,38SP

PROJECTILE VELOCITY (MPS) --428.19

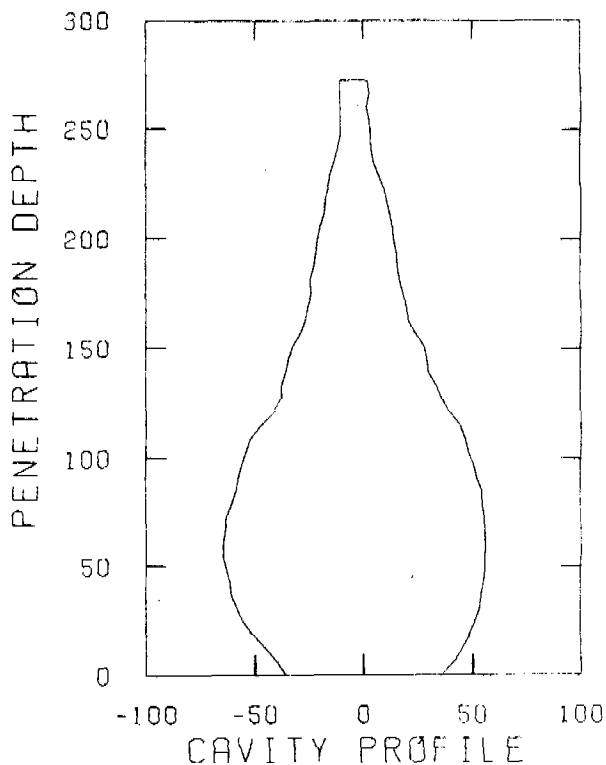
PROJECTILE DIAMETER (CM) -- 9.060

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	101	101
28	224	226
61	112	112
91	108	108
120	124	124
154	131	131
169	95	95

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	35
6	40
12	45
18	49
24	53
30	56
36	57
42	58
48	59
54	60
60	60
66	59
72	59
78	57
85	56
91	54
96	53
103	51
109	49
115	45
121	40
127	36
133	35
139	32
145	31
151	29
157	26
163	23
169	22
175	20
181	20
187	18
193	18
199	17
205	16
211	14
217	13
223	12
229	11
236	8
242	7
248	6
253	6
260	5
266	6
272	6



ROUND NUMBER -- 478

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --SUPERVEL,JSP,38SP

PROJECTILE VELOCITY (MPS) --244.75

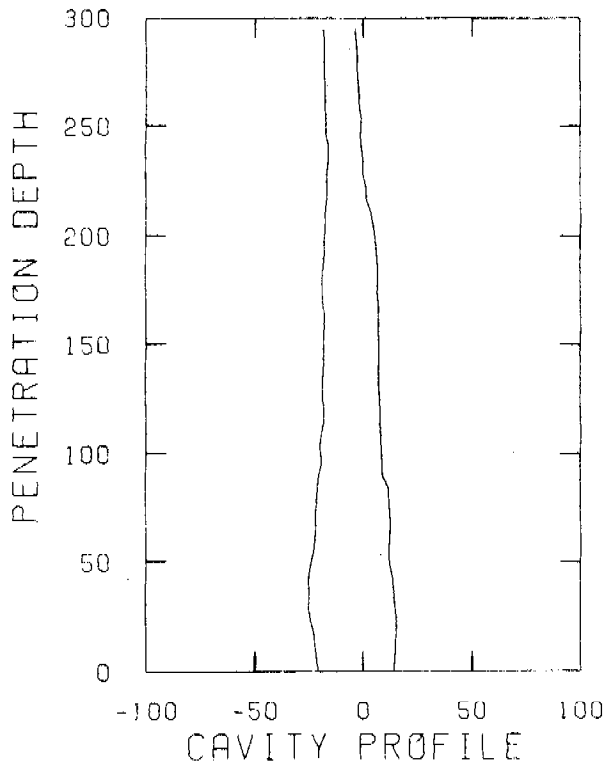
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-9	43	43
12	49	50
37	48	49
64	51	51
93	57	57
133	49	49
153	47	50

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	17
5	18
12	18
17	19
23	19
30	20
36	19
42	19
48	18
54	17
60	17
66	17
72	16
78	16
84	16
90	14
96	13
102	14
108	13
114	12
120	12
126	13
132	12
138	12
144	12
150	12
156	12
162	12
168	12
174	12
180	12
186	12
192	11
198	11
204	10
210	10
216	8
222	8
228	8
234	7
240	7
246	7
252	7
258	7
264	7
270	7
277	7
282	7



ROUND NUMBER 478 CONTINUED

I	288	7
I	294	7
I	300	6
I	306	6
I	312	6
I	318	5

ROUND NUMBER -- 477

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --SUPERVEL JSP.38SP

PROJECTILE VELOCITY (MPS) --274.32

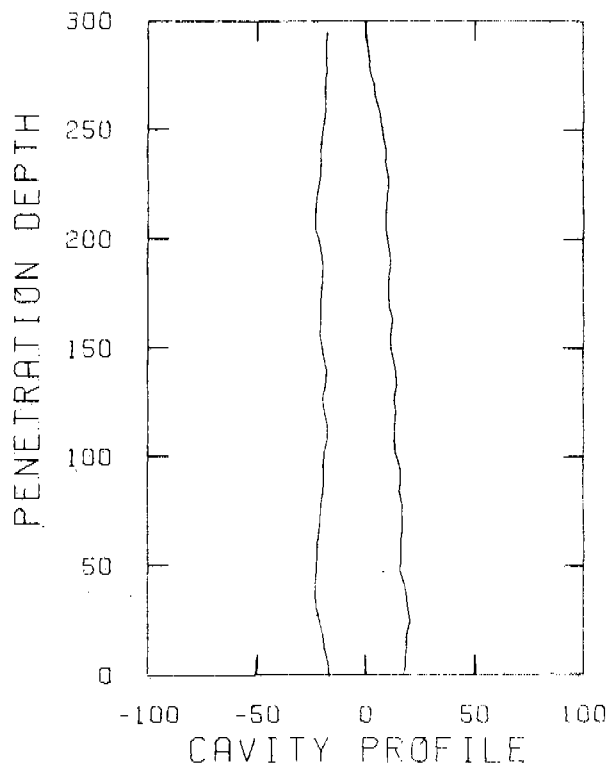
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-8	46	46
14	50	50
46	52	52
75	47	47
105	38	42
152	104	124
173	110	127

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	17
6	17
12	18
17	19
24	20
30	21
36	21
42	20
48	19
54	19
60	19
66	19
72	18
78	18
84	17
90	17
96	17
102	16
108	15
114	15
120	16
126	16
132	16
138	15
144	15
150	15
156	16
162	16
168	15
174	15
180	15
186	15
192	15
198	15
204	16
211	16
216	16
222	16
228	15
234	14
240	14
246	13
252	12
258	12
265	11
271	11
277	9
282	9



ROUND NUMBER 477 CONTINUED

I	289	9
I	295	8
I	301	8
I	307	8
I	313	8
I	319	7

ROUND NUMBER -- 476

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --SUPERVEL,JSP,38SP

PROJECTILE VELOCITY (MPS) --299.31

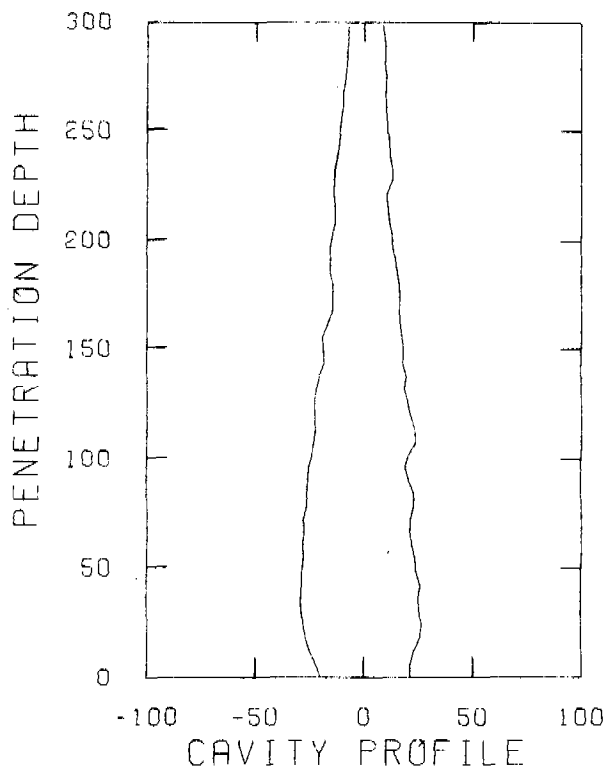
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-5	41	42
17	42	46
50	41	43
81	47	48
111	55	55
157	49	53
176	34	36

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	20
5	21
12	24
17	26
23	27
29	27
35	27
41	27
47	26
53	25
59	25
65	24
71	24
77	24
83	24
89	23
95	22
101	22
107	23
113	22
119	21
125	21
131	20
137	20
143	18
149	18
155	18
161	16
166	15
173	15
179	15
184	15
191	14
197	14
202	13
208	12
214	11
220	12
227	13
232	13
238	12
244	11
250	10
256	10
262	9
268	9
274	9
280	8



ROUND NUMBER 476 CONTINUED

I	286	8
I	292	8
I	298	7
I	304	7
I	309	4
I		

ROUND NUMBER -- 471

PROJECTILE MASS (GM) -- 7.120

PROJECTILE TYPE --SUPERV, JSP, 38SP

PROJECTILE VELOCITY (MPS) --346.25

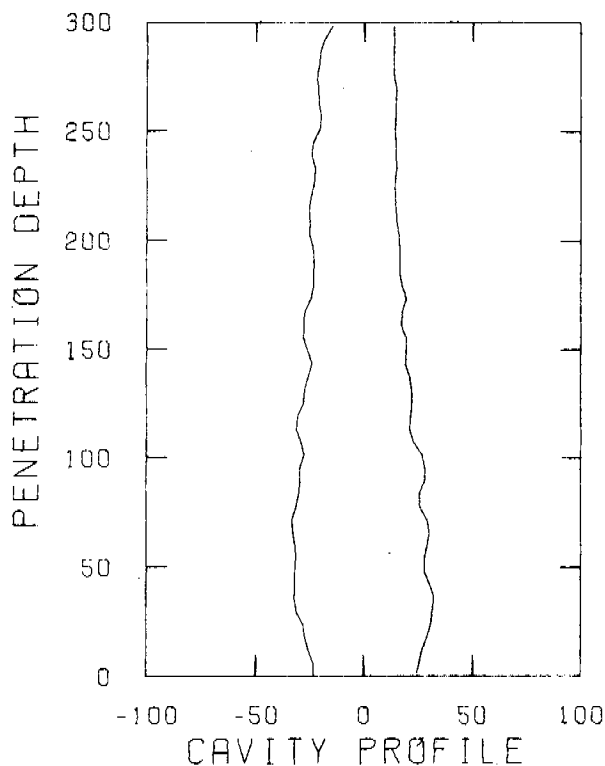
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	54	55
26	65	65
57	118	119
93	47	48
129	69	70
178	70	79
202	69	70

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	23
6	24
13	26
17	28
24	29
29	31
35	32
41	31
47	29
53	29
59	30
65	31
71	31
77	28
83	27
89	28
95	28
101	27
107	26
113	26
119	26
125	24
131	24
137	23
143	21
149	22
155	23
161	22
167	22
173	22
179	20
185	19
191	19
197	19
203	20
209	20
214	19
221	19
226	18
233	18
238	19
245	19
251	17
257	17
263	17
269	18
274	17
280	17



ROUND NUMBER 471 CONTINUED

1	286	16
1	292	15
1	298	13
1	304	12
1	310	12
1	316	11

ROUND NUMBER -- 475

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --SUPERVEL.JSP.38SP

PROJECTILE VELOCITY (MPS) --347.47

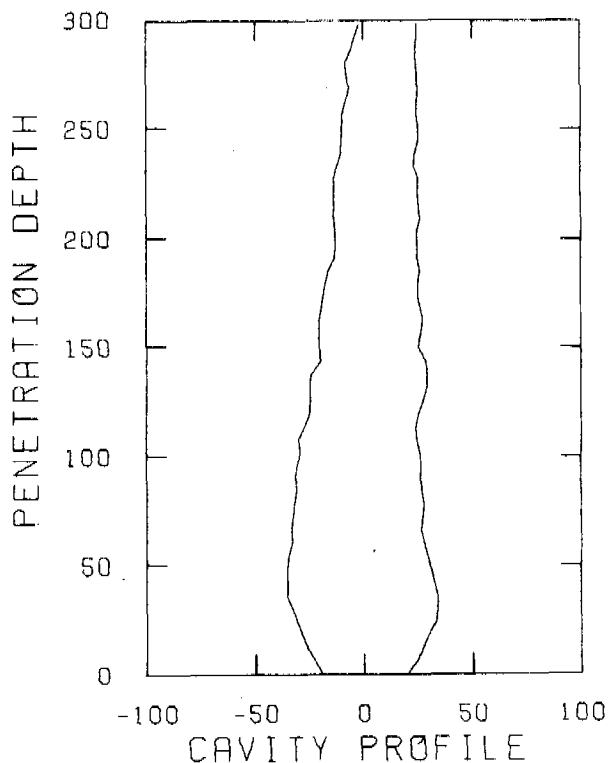
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-13	47	47
15	52	52
51	91	91
86	125	127
123	154	163
173	130	145
197	131	139

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	19
6	23
12	26
17	29
24	32
29	33
35	34
41	33
47	33
53	31
59	30
66	29
71	29
77	29
83	28
90	28
95	28
101	27
107	27
113	25
119	25
125	26
131	26
137	26
143	24
149	22
155	23
161	23
167	22
173	21
179	21
185	20
191	18
197	18
203	18
209	19
215	19
221	19
227	19
233	17
238	16
244	17
250	17
256	16
262	16
268	15
274	16
280	16



ROUND NUMBER 475 CONTINUED

I	286	14
I	292	14
I	298	13
I	304	12
I	310	12
I	315	10

ROUND NUMBER -- 474

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --SUPERVEL,JSP,38SP

PROJECTILE VELOCITY (MPS) --374.60

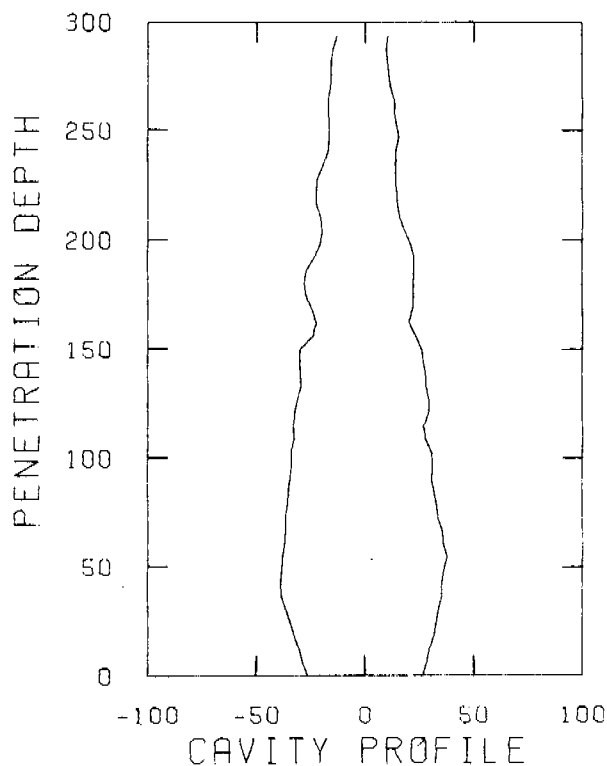
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-5	49	52
25	61	61
60	55	55
98	56	58
133	56	58
182	48	48
205	62	66

1 CAVITY MEASUREMENTS

1	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
1	0	26
1	5	28
1	12	30
1	18	32
1	24	33
1	30	35
1	36	37
1	42	37
1	48	37
1	54	37
1	60	36
1	66	35
1	72	35
1	78	34
1	84	33
1	90	32
1	96	32
1	102	32
1	108	30
1	114	29
1	120	30
1	126	30
1	132	28
1	138	28
1	144	28
1	150	27
1	156	23
1	162	21
1	168	23
1	174	24
1	180	25
1	186	24
1	192	22
1	198	20
1	204	18
1	210	18
1	216	18
1	222	18
1	228	17
1	234	16
1	240	15
1	246	15
1	252	15
1	258	15
1	264	15
1	270	13
1	276	13
1	282	12



ROUND NUMBER 474 CONTINUED

I	288	12
I	293	11
I	300	11
I	306	10
I	312	10
I	318	10
I	323	8
I		

ROUND NUMBER -- 372

PROJECTILE MASS (GM) --11.664

PROJECTILE TYPE --SUPERVEL JSP,44MAG PROJECTILE VELOCITY (MPS) --487.68

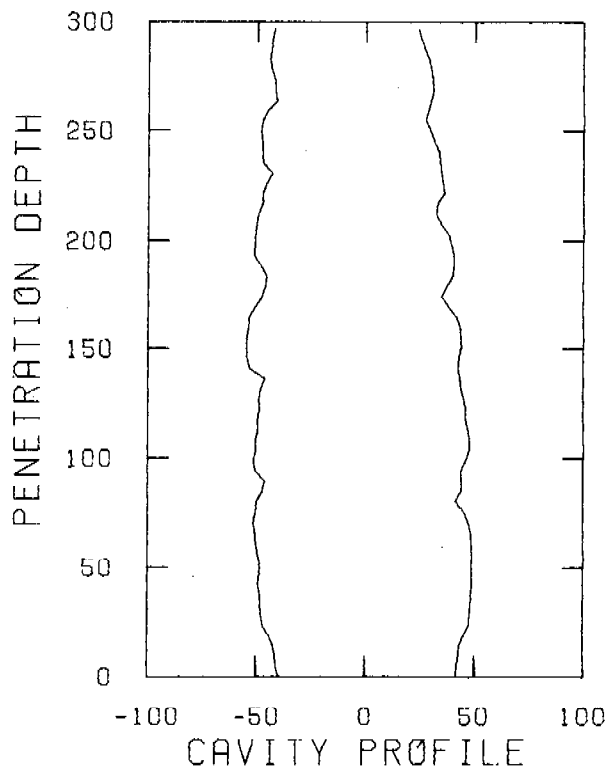
PROJECTILE DIAMETER (CM) -- 10.846

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	96	96
40	82	82
88	94	97
141	83	86
193	89	91
266	79	79
303	86	86

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	40
4	41
9	42
13	42
18	44
23	47
28	47
33	48
37	48
42	49
47	48
51	48
56	49
61	49
65	49
70	49
75	47
80	45
84	45
89	45
94	47
99	48
103	49
108	49
113	48
117	47
122	47
127	47
131	45
136	44
141	47
146	48
150	49
155	49
160	48
165	47
169	44
174	41
179	41
183	42
188	44
193	45
197	45
202	44
207	42
211	40
216	40
221	41



ROUND NUMBER 372 CONTINUED

I	226	40
I	230	38
I	235	40
I	240	40
I	244	39
I	249	38
I	254	37
I	259	37
I	263	35
I	268	36
I	273	36
I	278	36
I	282	36
I	287	35
I	292	34
I	296	32
I	301	32
I	306	30
I	310	28
I	315	26
I	320	26

ROUND NUMBER -- 498

PROJECTILE MASS (GM) -- 2.398

PROJECTILE TYPE --W-W,LHP,22CAL

PROJECTILE VELOCITY (MPS) --266.40

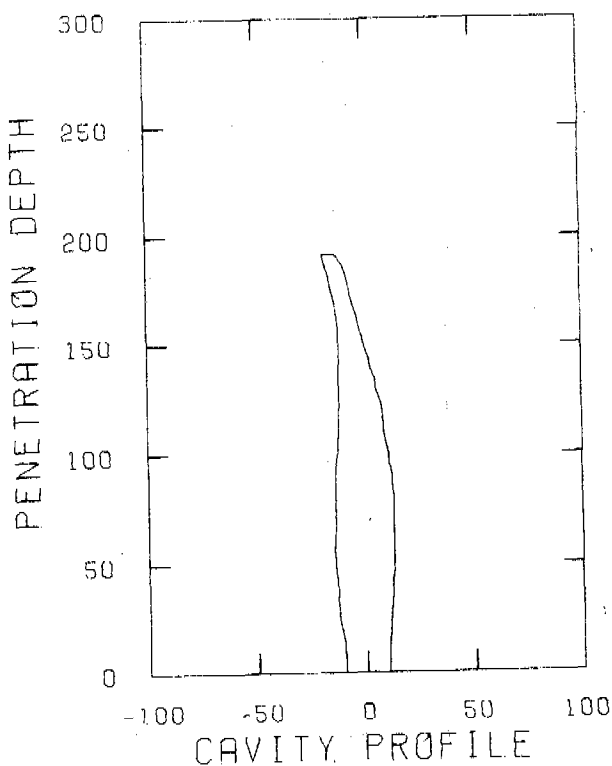
PROJECTILE DIAMETER (CM) -- 5.639

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	21	21
14	58	88
38	86	92
61	86	86
83	88	94
110	49	63
121	53	86

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	9
5	9
9	10
14	10
19	11
24	11
29	12
33	12
38	12
43	12
48	13
52	13
57	13
62	13
67	13
71	13
76	13
81	13
86	12
91	12
95	12
100	11
105	11
110	10
115	10
120	9
124	9
129	8
134	8
139	7
144	6
149	5
153	5
158	4
163	4
167	4
172	4
177	4
182	4
187	4
192	2



ROUND NUMBER -- 499

PROJECTILE MASS (GM) -- 2.398

PROJECTILE TYPE --W-W,LHP,22CAL

PROJECTILE VELOCITY (MPS) --290.17

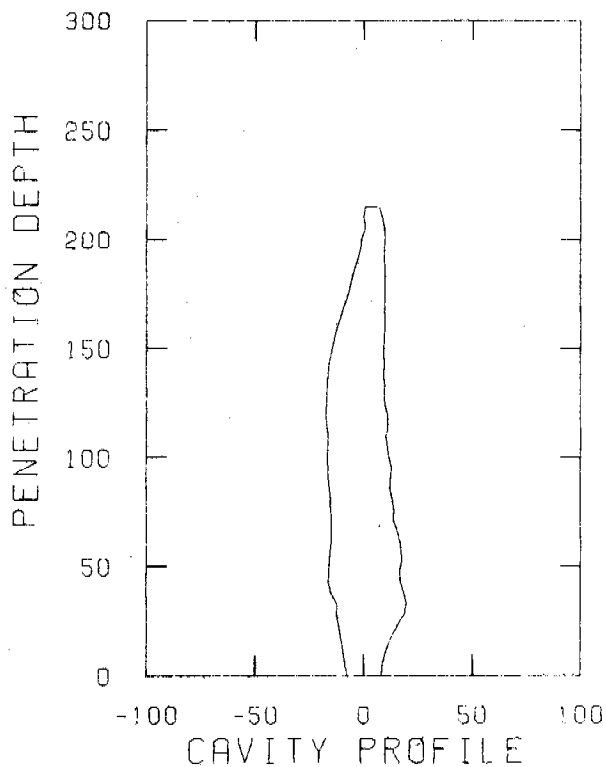
PROJECTILE DIAMETER (CM) -- 5.639

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	21	21
15	23	23
43	26	26
71	29	29
99	26	26
131	27	27
142	36	37

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	7
4	8
9	9
14	10
19	12
24	14
28	15
33	16
38	16
42	16
47	16
52	16
57	16
61	15
66	15
71	14
76	14
81	14
85	13
90	14
95	14
100	14
105	13
109	13
114	14
119	14
124	13
129	13
133	13
138	12
143	12
148	11
152	11
157	11
162	10
167	9
172	8
176	8
181	7
186	6
191	5
196	5
200	5
205	4
210	4
214	3



ROUND NUMBER -- 500

PROJECTILE MASS (GM) -- 2.398

PROJECTILE TYPE --W-W,LHP,22CAL

PROJECTILE VELOCITY (MPS) --311.20

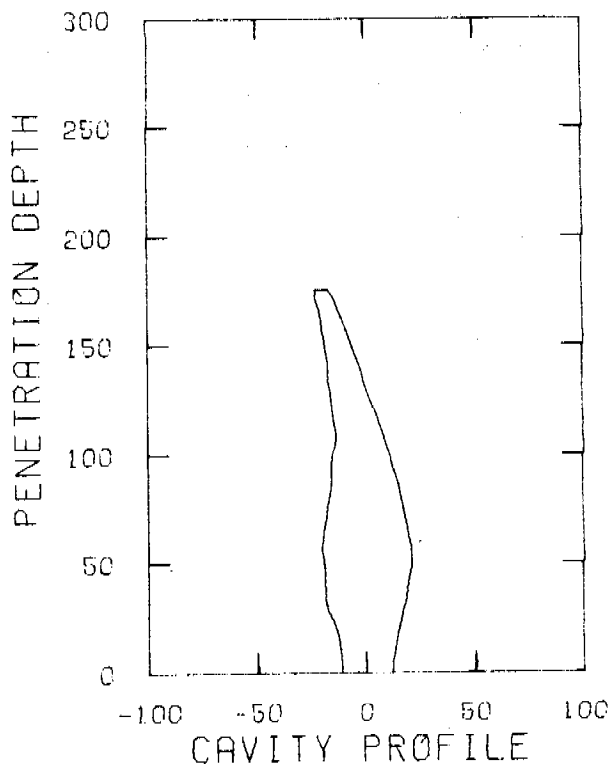
PROJECTILE DIAMETER (CM) -- 5.639

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-6	21	21
15	37	37
43	48	51
65	41	41
87	45	45
113	57	65
122	52	53

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	11
I 4	11
I 9	12
I 14	13
I 19	14
I 23	15
I 28	17
I 33	18
I 38	18
I 42	19
I 47	20
I 52	20
I 57	20
I 61	19
I 66	19
I 71	18
I 76	17
I 80	16
I 85	15
I 90	14
I 95	13
I 99	13
I 104	11
I 109	10
I 114	10
I 118	10
I 123	9
I 128	8
I 133	8
I 137	7
I 142	6
I 147	6
I 152	5
I 156	5
I 161	4
I 166	4
I 171	4
I 175	2



ROUND NUMBER - 61

PROJECTILE MASS (GM) - 6.480

PROJECTILE TYPE -W-W, PP, 9MM

PROJECTILE VELOCITY (MPS) -215.80

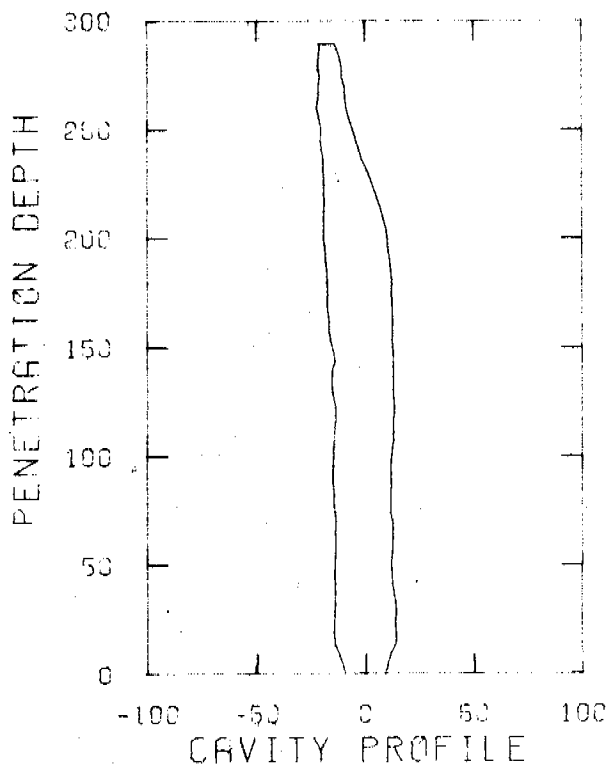
PROJECTILE DIAMETER (CM) - .897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
11	62	62
30	69	69
54	61	61
78	65	65
106	68	71

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	9
4	10
9	11
13	13
18	14
23	14
27	14
32	13
37	13
41	13
46	13
51	12
55	12
60	12
64	13
69	13
72	12
78	13
83	13
88	13
92	13
97	13
102	13
106	13
111	13
116	13
120	13
125	13
130	13
134	14
139	14
144	13
148	13
153	14
157	14
162	14
167	14
172	14
176	14
181	14
185	14
190	14
195	14
199	14
204	14
209	13
213	13
218	12



ROUND NUMBER 61 CONTINUED

I	222	11
I	227	10
I	232	9
I	236	8
I	241	8
I	246	8
I	250	7
I	255	6
I	259	6
I	264	6
I	269	6
I	274	4
I	278	5
I	283	4
I	285	4
I	287	3
I	289	3
I	0	0

ROUND NUMBER - 62

PROJECTILE MASS (GM) - 6.480

PROJECTILE TYPE - M-W, PP, 9MM

PROJECTILE VELOCITY (MPS) - 290.45

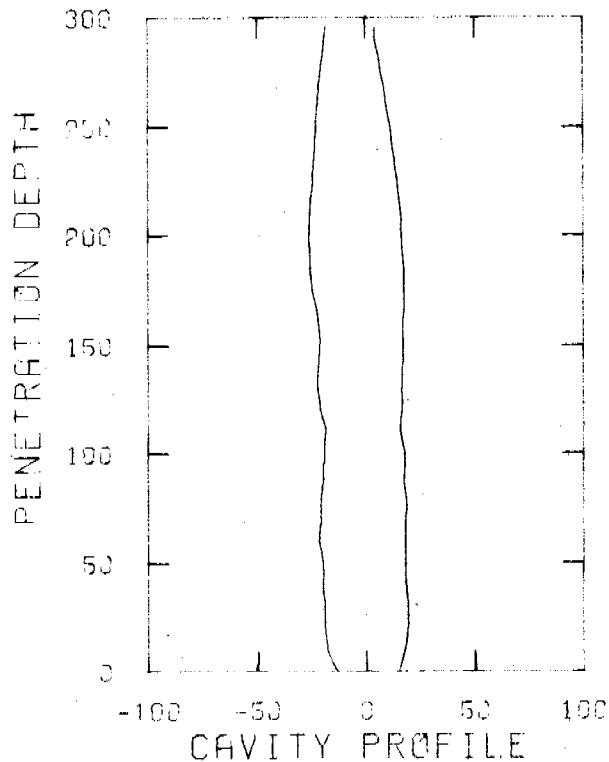
PROJECTILE DIAMETER (CM) - .897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
15	63	63
42	58	58
75	66	66
124	52	52

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	13
4	15
9	17
13	18
18	19
23	19
27	19
32	19
37	19
41	19
46	18
51	19
55	19
60	19
64	19
69	19
74	19
78	19
83	19
87	18
92	18
97	18
101	18
106	17
111	16
115	17
120	18
124	18
129	19
134	19
138	19
143	19
148	19
152	19
157	19
161	19
166	20
171	20
175	21
180	21
185	21
189	21
194	21
198	21
203	21
208	21
212	20
217	20



ROUND NUMBER 62 CONTINUED

I	221	19
I	226	19
I	231	18
I	235	18
I	240	17
I	245	17
I	249	16
I	254	16
I	258	15
I	263	15
I	268	14
I	272	14
I	277	13
I	282	12
I	286	11
I	291	11
I	295	10
I	300	10
I	305	10
I	309	9
I	315	9

ROUND NUMBER - 63

PROJECTILE MASS (GM) - 6.480

PROJECTILE TYPE - W-W, PP, 9MM

PROJECTILE VELOCITY (MPS) - 351.95

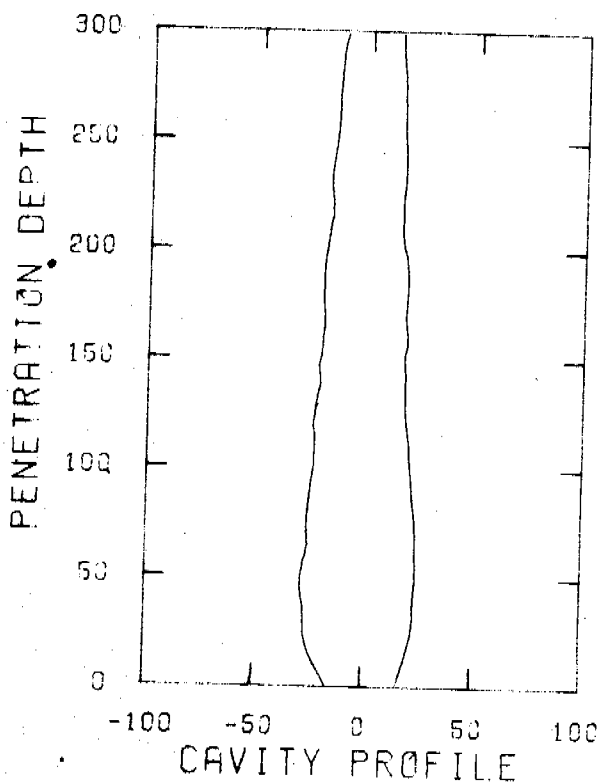
PROJECTILE DIAMETER (CM) - .897

PROJECTILE DEFORMATION

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
18	67	67
49	63	63
88	60	60
124	65	66
164	68	70

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	15
4	17
9	19
13	22
18	23
22	24
27	25
32	25
36	25
41	26
45	26
50	26
55	26
59	25
64	24
68	24
73	24
78	24
82	23
87	23
91	23
96	22
101	21
105	21
110	21
114	21
119	21
124	20
128	20
133	20
138	19
142	19
147	19
151	19
156	19
160	19
165	18
170	18
174	18
179	19
183	19
188	19
193	18
197	18
202	17
206	16
211	16
216	15



ROUND NUMBER 63 CONTINUED

1	220	15
1	225	16
1	229	16
1	234	16
1	239	16
1	243	16
1	248	15
1	252	15
1	257	15
1	262	14
1	266	14
1	271	14
1	275	14
1	280	14
1	285	13
1	289	13
1	294	13
1	298	12
1	303	11
1	308	10
1	312	10
1	317	9
1	319	9
1	0	0

ROUND NUMBER - 64

PROJECTILE MASS (GR) - 6.480

PROJECTILE TYPE - M-M, PP, 9MM

PROJECTILE VELOCITY (MPS) - 410.82

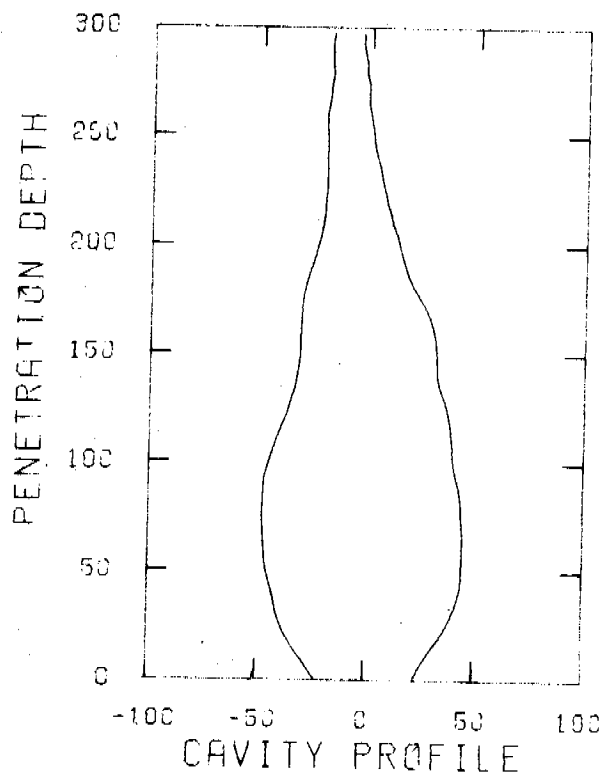
PROJECTILE DIAMETER (CM) - .897

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM ² ±2)	CROSS-SECT AREA (MM ² ±2)
21	93	93
53	96	96
124	98	99
155	106	106

I CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	22
4	25
9	28
14	31
18	34
23	37
28	39
32	41
37	42
41	43
46	44
51	45
55	45
60	46
64	46
69	46
74	46
78	46
83	45
88	45
93	44
97	43
102	41
106	41
111	40
116	38
120	37
125	36
130	34
134	32
139	32
144	31
148	31
153	31
157	30
162	30
167	29
171	28
176	26
180	24
185	22
190	21
194	19
199	18
204	17
208	15
213	14
218	14



ROUND NUMBER 64 CONTINUED

I	222	13
I	227	12
I	232	12
I	236	11
I	241	11
I	245	10
I	250	10
I	255	10
I	259	9
I	264	8
I	269	8
I	273	8
I	278	7
I	283	7
I	287	7
I	292	6
I	296	6
I	301	5
I	306	5
I	310	5
I	316	5

ROUND NUMBER - 65

PROJECTILE MASS (GM) - 7.452

PROJECTILE TYPE - W-W, PP, 9MM

PROJECTILE VELOCITY (MPS) - 410.11

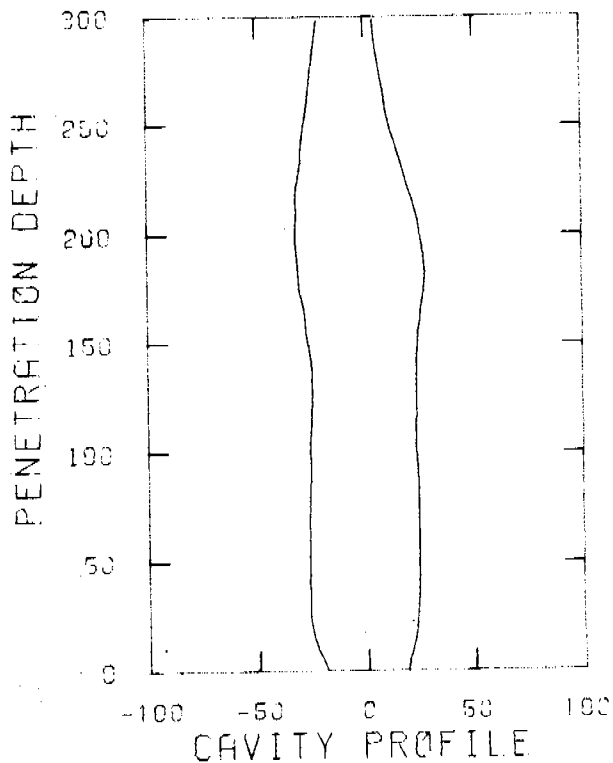
PROJECTILE DIAMETER (CM) - .097

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM ² ±2)	CROSS-SECT AREA (MM ² ±2)
22	52	52
58	57	58
104	54	58
148	42	59
191	3	55

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	18
I	4	19
I	9	21
I	13	23
I	18	24
I	22	24
I	27	25
I	32	25
I	36	25
I	41	25
I	45	25
I	50	25
I	55	25
I	59	25
I	64	25
I	68	25
I	73	25
I	77	25
I	82	25
I	87	24
I	91	24
I	96	24
I	100	24
I	105	24
I	110	24
I	114	24
I	119	24
I	123	24
I	128	23
I	132	24
I	137	24
I	142	24
I	146	24
I	151	25
I	155	25
I	160	26
I	165	27
I	169	27
I	174	28
I	178	29
I	183	29
I	188	29
I	192	29
I	197	29
I	201	28
I	206	28
I	210	27
I	215	26



ROUND NUMBER 65 CONTINUED

I	220	26
I	224	24
I	229	23
I	233	22
I	238	22
I	243	21
I	247	20
I	252	19
I	256	18
I	261	17
I	265	17
I	270	16
I	275	15
I	280	14
I	284	14
I	288	13
I	293	13
I	298	12
I	302	12
I	307	11
I	311	11

ROUND NUMBER - 60

PROJECTILE MASS (GM) - 6.480

PROJECTILE TYPE -W-W, PP, 9MM

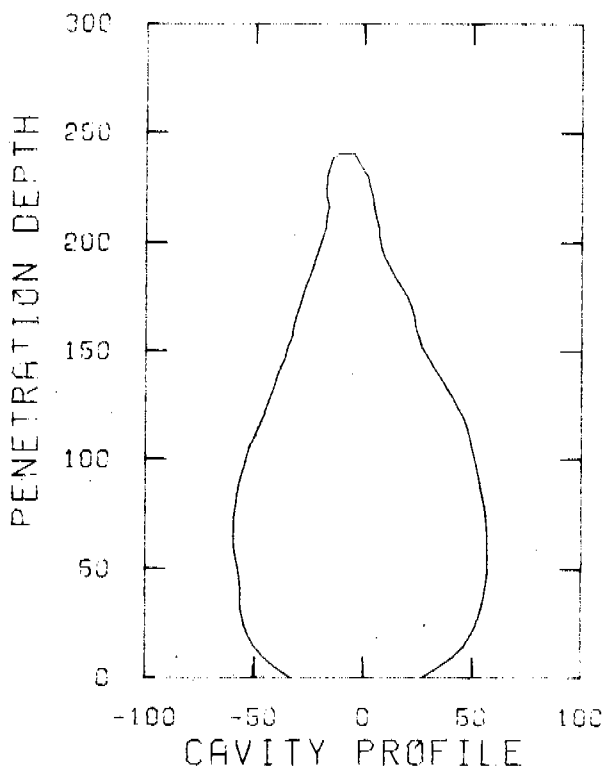
PROJECTILE VELOCITY (MPS) -478.29

PROJECTILE DIAMETER (CM) - .897

PROJECTILE DEFORMATION

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
23	158	159	0	30
58	192	192	4	37
95	172	172	9	43
124	138	144	14	48
151	159	159	18	50



23	53
27	54
32	55
37	56
41	56
46	57
50	57
55	58
59	58
64	58
69	58
73	58
78	57
83	56
87	55
92	54
96	53
101	52
106	50
110	49
115	47
119	45
124	43
129	41
133	39
138	37
142	34
147	32
151	30
156	28
161	27
165	26
170	25
174	23
179	21
184	19
188	17
193	15
197	13
202	12
206	11
211	10
216	10

ROUND NUMBER 60 CONTINUED

I	220	10
I	225	9
I	230	8
I	234	6
I	238	5
I	240	3

ROUND NUMBER - 56

PROJECTILE MASS (GM) - 8.424

PROJECTILE TYPE -W-W, FJ, .38 AUTO PROJECTILE VELOCITY (MPS) -336.47

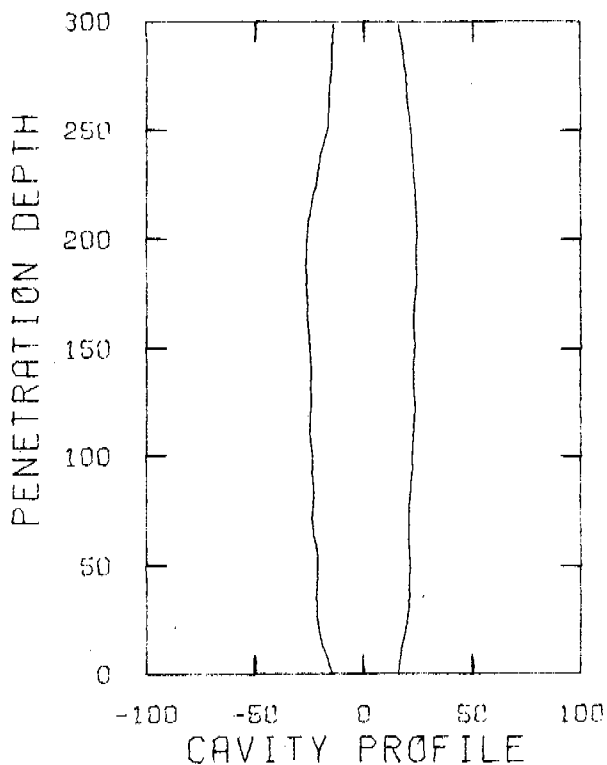
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	62	63
44	58	58
82	54	57
119	50	61
159	30	59

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	15
4	16
9	17
13	18
18	19
22	20
27	21
32	21
36	21
41	21
45	21
50	21
55	21
59	21
64	21
68	22
73	22
78	22
82	22
87	22
91	23
96	23
100	23
105	23
110	23
114	24
119	24
123	24
128	23
133	23
137	23
142	23
146	24
151	24
156	24
160	24
165	24
169	24
174	25
178	25
183	25
188	25
192	25
197	25
201	25
206	25
211	24
215	24



ROUND NUMBER 56 CONTINUED

1	220	23
1	224	22
1	229	21
1	233	21
1	238	20
1	243	20
1	247	19
1	252	18
1	256	18
1	261	17
1	266	17
1	270	17
1	275	16
1	279	16
1	284	16
1	288	15
1	293	15
1	298	14
1	302	13
1	307	13
1	311	12

ROUND NUMBER - 144

PROJECTILE MASS (GM)- 7.128

PROJECTILE TYPE -W-W, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) -199.87

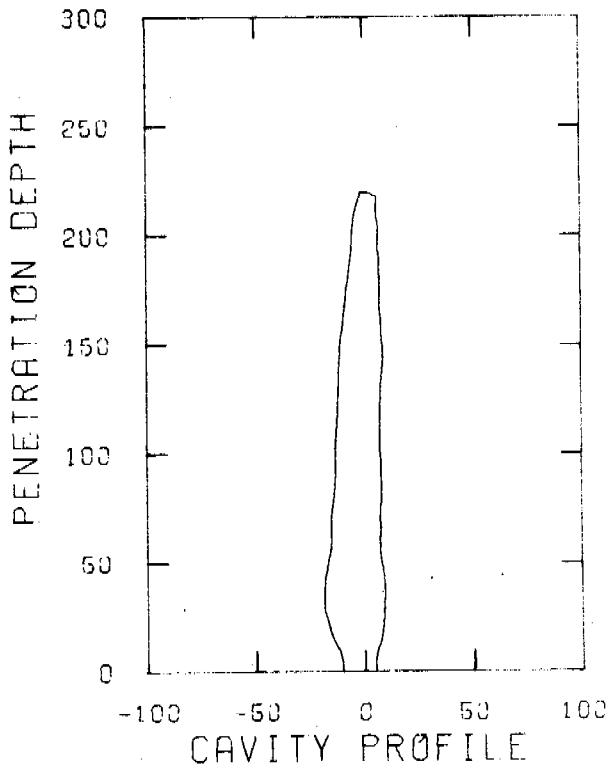
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
6	55	55
22	42	42
44	48	49
65	54	57
85	41	48

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	7
I	4	7
I	9	8
I	13	10
I	18	12
I	23	12
I	27	13
I	32	14
I	36	14
I	41	13
I	46	12
I	50	12
I	55	11
I	60	11
I	65	11
I	69	11
I	74	11
I	78	11
I	83	10
I	88	10
I	92	10
I	97	10
I	102	10
I	106	9
I	111	9
I	115	9
I	120	9
I	125	9
I	129	9
I	134	9
I	138	9
I	143	10
I	148	9
I	153	9
I	157	8
I	162	8
I	166	7
I	171	7
I	176	7
I	180	6
I	185	6
I	190	6
I	194	5
I	199	5
I	204	5
I	208	4
I	213	4
I	217	3



ROUND NUMBER 144 CONTINUED

I	220	1
I	0	0
I	0	0

ROUND NUMBER -- 297

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --W-W, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) --209.09

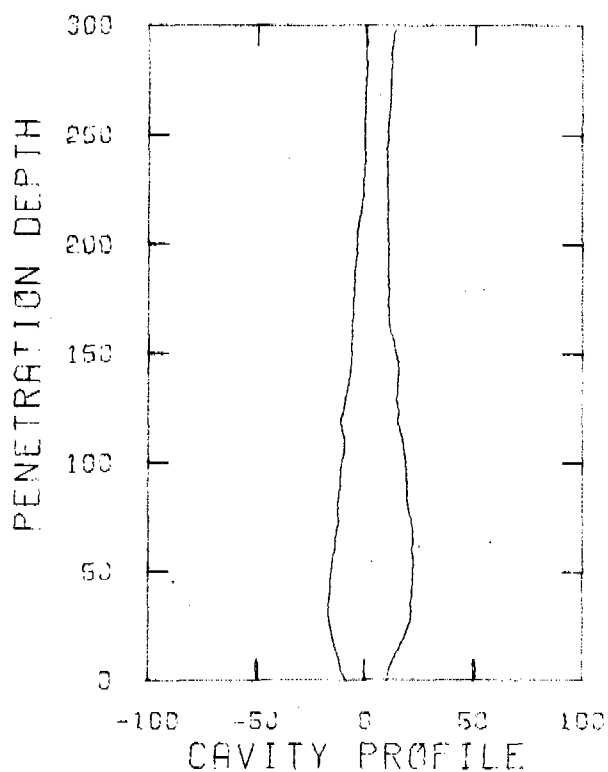
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-10	67	67
6	61	61
29	60	60
51	61	61
74	65	65
121	62	62
129	60	60

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	9
I 4	11
I 8	12
I 13	14
I 18	16
I 22	17
I 27	18
I 32	19
I 36	19
I 41	19
I 45	19
I 50	19
I 54	18
I 59	17
I 64	18
I 68	17
I 73	16
I 77	16
I 82	15
I 87	15
I 91	15
I 96	15
I 100	14
I 105	13
I 110	13
I 114	13
I 119	13
I 123	12
I 128	11
I 133	11
I 137	10
I 142	10
I 146	10
I 151	9
I 155	9
I 160	8
I 165	8
I 169	7
I 174	7
I 178	7
I 183	7
I 188	7
I 192	7
I 197	7
I 201	6
I 206	6
I 210	6
I 215	5



ROUND NUMBER 297 CONTINUED

I	220	5
I	224	5
I	229	5
I	234	5
I	238	4
I	243	4
I	247	5
I	252	5
I	257	5
I	261	5
I	266	5
I	270	5
I	275	5
I	279	5
I	284	5
I	289	5
I	293	6
I	298	6
I	302	6
I	307	6
I	312	6
I	316	6
I	321	6
I		

ROUND NUMBER = 38

PROJECTILE MASS (GM) = 7.128

PROJECTILE TYPE = W-W, JHP, .357 MAG

PROJECTILE VELOCITY (MPS) = 216.74

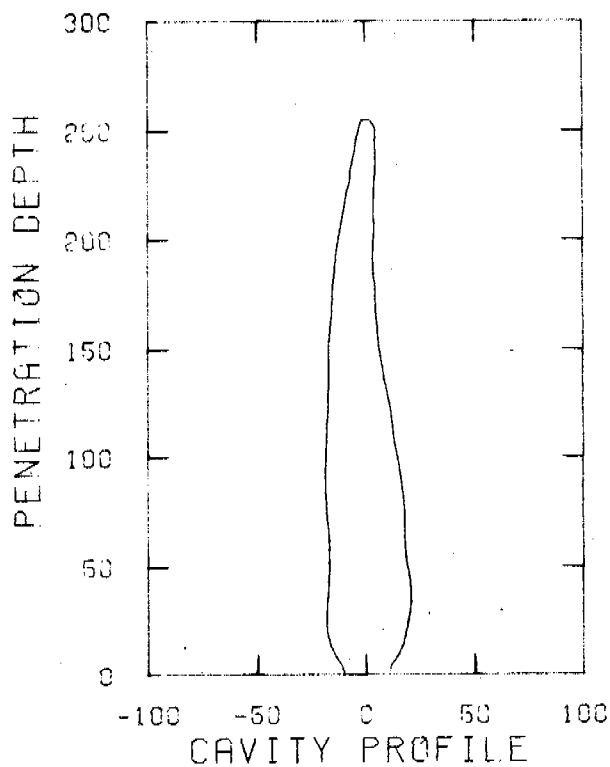
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
1	43	43
16	60	63
39	70	73
61	77	77
82	72	83

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	10
4	11
9	14
14	16
18	18
23	18
28	19
32	19
37	19
42	18
47	18
51	17
56	17
61	17
66	17
70	17
75	17
80	17
84	17
89	17
94	17
99	16
103	16
108	15
113	15
118	14
122	14
127	13
132	13
136	12
141	12
146	11
151	11
155	10
160	10
165	10
169	9
174	9
179	9
184	8
189	8
193	8
198	8
203	7
207	7
212	6
217	6
221	6



ROUND NUMBER 3A CONTINUED

1	226	5
1	231	5
1	236	5
1	240	4
1	245	4
1	250	3
1	252	2
1	254	1
1	0	0

ROUND NUMBER - 143

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -W-W, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) -239.06

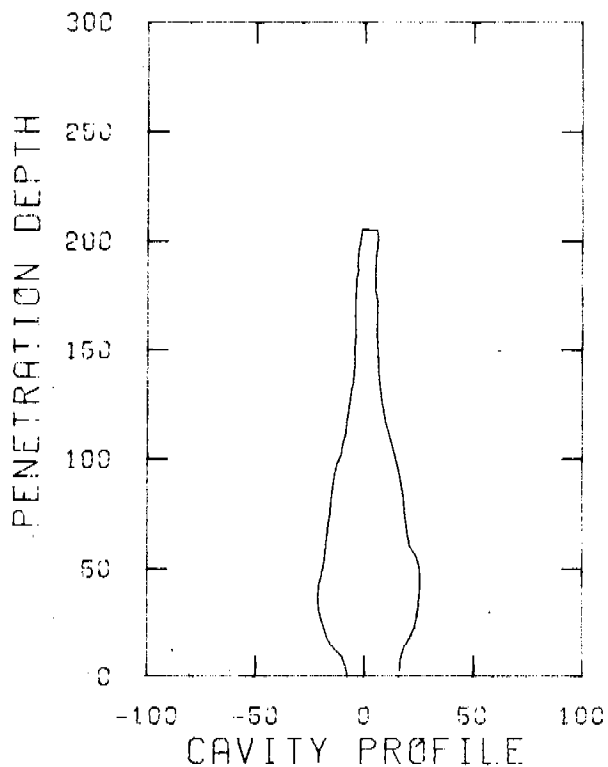
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
7	54	54
27	94	94
50	91	91
71	101	101
91	104	104

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	11
I	4	12
I	9	13
I	13	16
I	18	19
I	23	20
I	27	22
I	32	23
I	37	23
I	41	23
I	46	22
I	51	21
I	55	20
I	60	19
I	65	18
I	69	17
I	74	17
I	79	16
I	84	16
I	88	15
I	93	14
I	97	13
I	102	12
I	107	10
I	112	9
I	116	8
I	121	8
I	126	7
I	130	6
I	135	5
I	140	5
I	144	5
I	149	5
I	154	4
I	158	4
I	163	4
I	167	4
I	172	4
I	177	4
I	182	4
I	186	3
I	191	4
I	195	4
I	200	3
I	205	3



ROUND NUMBER -- 288

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --W-W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) --245.06

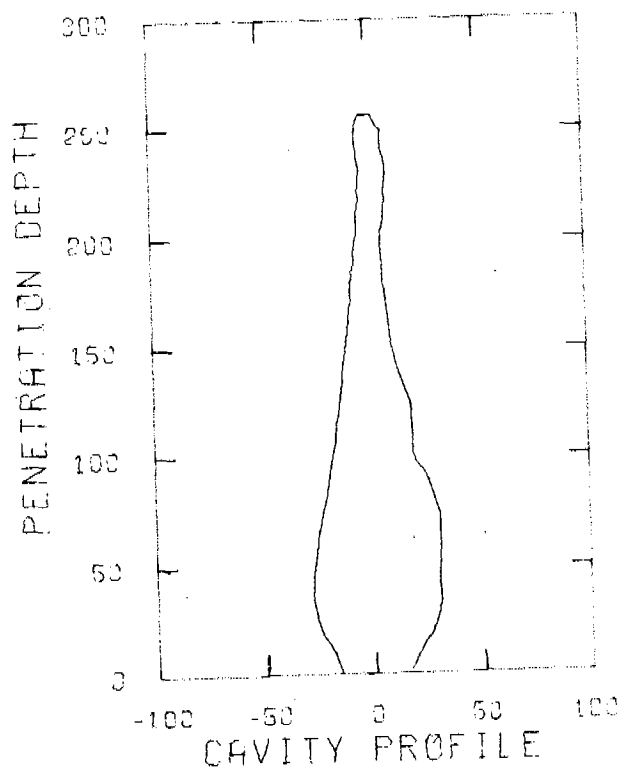
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-10	69	69
7	110	110
33	122	122
53	93	93
74	99	99
116	97	97
121	105	106

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	15
I	4	17
I	9	19
I	14	21
I	18	25
I	23	26
I	27	28
I	32	29
I	37	29
I	41	29
I	46	29
I	50	29
I	55	28
I	60	28
I	64	28
I	69	27
I	73	26
I	78	25
I	83	24
I	87	22
I	92	21
I	97	19
I	101	18
I	106	17
I	110	17
I	115	17
I	120	16
I	124	15
I	129	14
I	133	13
I	138	12
I	143	11
I	147	10
I	152	10
I	157	9
I	161	9
I	166	8
I	170	7
I	175	7
I	180	7
I	184	6
I	189	6
I	193	6
I	198	5
I	203	5
I	207	5
I	212	5
I	217	5



ROUND NUMBER 288 CONTINUED

I	221	5
I	226	5
I	230	5
I	235	6
I	240	5
I	244	5
I	249	5
I	251	4
I	254	3
I	256	2
I		

RJUND NUMBER -- 296

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --W-W, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) --271.27

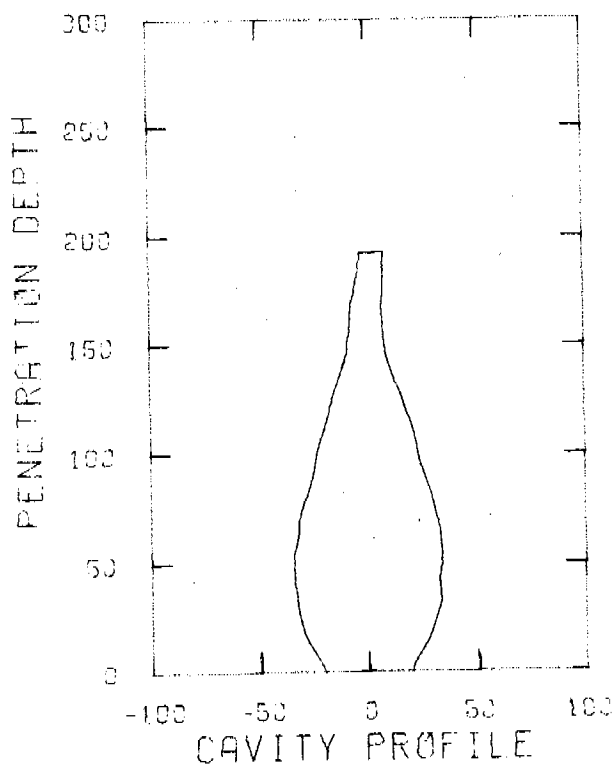
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-8	77	77
11	145	145
36	162	162
57	158	158
78	155	155
114	147	147
118	177	177

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	19
I 4	22
I 9	24
I 13	27
I 18	29
I 22	30
I 27	32
I 32	33
I 36	33
I 41	33
I 45	33
I 50	34
I 54	34
I 59	33
I 64	32
I 68	32
I 73	30
I 77	29
I 82	28
I 86	26
I 91	25
I 96	23
I 100	23
I 105	22
I 109	20
I 114	19
I 118	17
I 123	16
I 128	15
I 132	13
I 137	11
I 141	9
I 146	8
I 150	8
I 155	7
I 159	7
I 164	7
I 169	6
I 173	6
I 178	6
I 182	5
I 187	5
I 189	5
I 192	5



ROUND NUMBER - 37

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -W-W,JHP,.357 MAG

PROJECTILE VELOCITY (MPS) -277.89

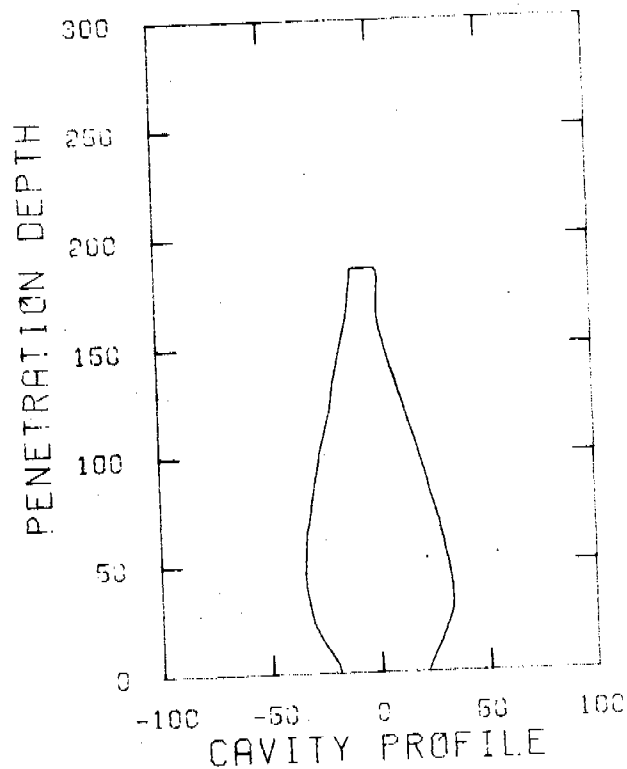
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
1	92	92
22	150	150
47	146	146
70	161	161
90	161	162

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	20
I	4	21
I	9	24
I	13	26
I	18	29
I	23	31
I	27	32
I	32	33
I	37	33
I	41	33
I	46	33
I	50	32
I	55	32
I	60	31
I	64	30
I	69	29
I	74	28
I	78	27
I	83	26
I	88	25
I	92	24
I	97	23
I	101	22
I	106	21
I	111	19
I	115	18
I	120	17
I	125	16
I	129	15
I	134	14
I	139	12
I	143	11
I	148	10
I	153	9
I	157	8
I	162	7
I	166	6
I	171	6
I	176	6
I	180	6
I	184	5
I	186	5



ROUND NUMBER - 142

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -W-W, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) -308.81

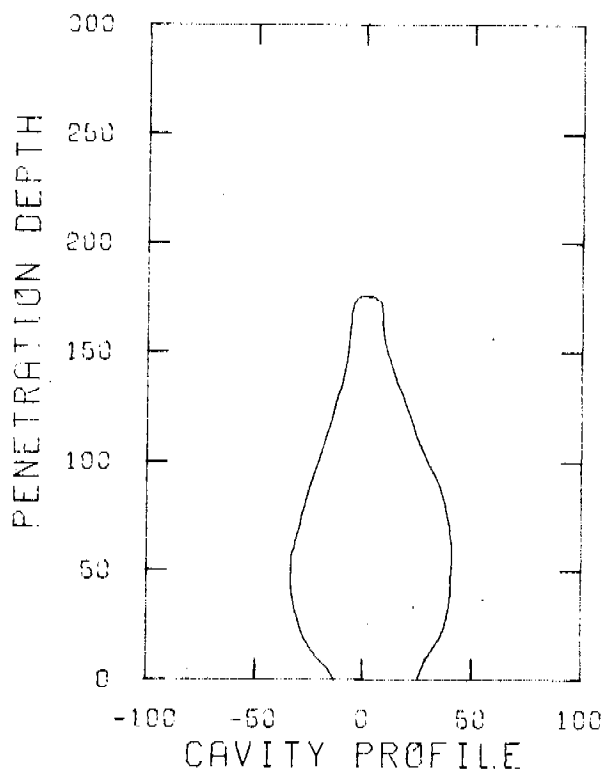
PROJECTILE DIAMETER (CM) - .9C7

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
9	67	67
32	190	190
58	179	179
81	219	220
101	214	214

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	19
I	5	21
I	9	25
I	14	28
I	19	31
I	23	33
I	28	34
I	32	35
I	37	36
I	42	36
I	46	36
I	51	37
I	56	37
I	61	36
I	65	35
I	70	34
I	75	33
I	79	32
I	84	31
I	89	29
I	93	27
I	98	25
I	102	23
I	107	22
I	112	20
I	117	18
I	121	17
I	126	15
I	131	14
I	135	12
I	140	11
I	145	10
I	149	8
I	154	8
I	159	7
I	163	6
I	168	6
I	173	6
I	175	3



ROUND NUMBER -- 287

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --W-W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) --310.90

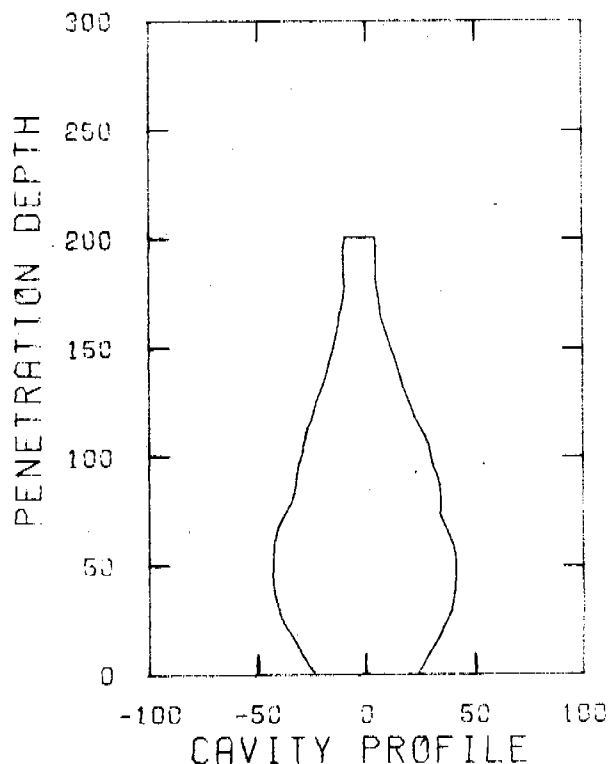
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-8	80	80
12	196	196
40	223	223
61	194	194
83	215	215
122	206	212
126	182	182

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	23
I	4	26
I	9	29
I	13	31
I	18	34
I	23	37
I	27	39
I	32	40
I	36	41
I	41	41
I	45	42
I	50	42
I	55	41
I	59	41
I	64	39
I	68	37
I	73	35
I	77	34
I	82	33
I	87	32
I	91	32
I	95	30
I	100	29
I	105	28
I	109	27
I	114	25
I	119	23
I	123	21
I	128	20
I	132	18
I	137	16
I	141	15
I	146	14
I	151	12
I	155	11
I	160	10
I	164	9
I	169	8
I	174	7
I	178	7
I	183	6
I	187	7
I	192	7
I	196	7
I	200	6



ROUND NUMBER = 36

PROJECTILE MASS (GM) = 7.128

PROJECTILE TYPE -W-W,JHP,.357 MAG PROJECTILE VELOCITY (MPS) =319.88

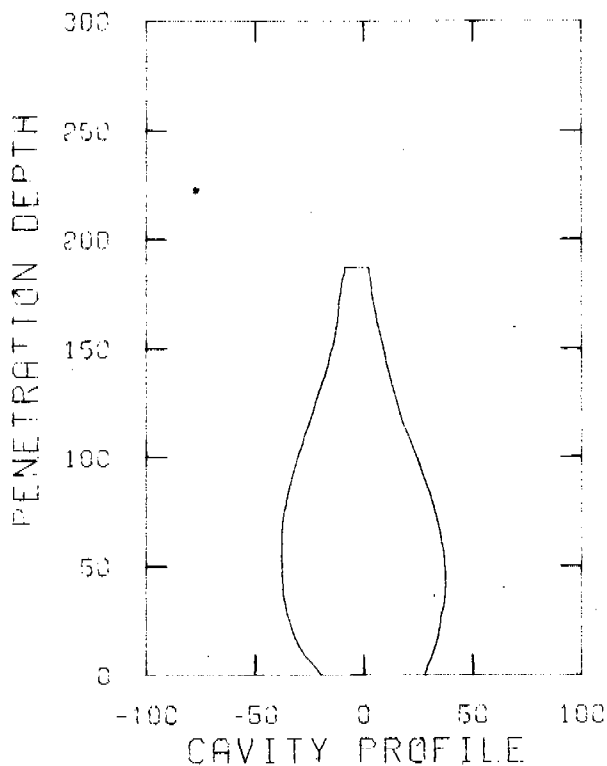
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
16	85	85
39	164	164
66	161	161
89	181	182
111	166	166

I CAVITY MEASUREMENTS

I	I	I
I	PENETRATION	CAVITY
I	DISTANCE (MM)	RADIUS(MM)
I	0	23
I	4	26
I	9	29
I	13	31
I	18	33
I	23	34
I	27	35
I	32	36
I	37	37
I	41	37
I	46	37
I	50	37
I	55	37
I	59	36
I	64	36
I	69	35
I	73	34
I	78	33
I	83	32
I	87	30
I	92	29
I	96	28
I	101	26
I	106	24
I	110	23
I	115	21
I	120	20
I	124	18
I	129	17
I	134	15
I	138	14
I	143	13
I	147	12
I	152	11
I	157	9
I	161	9
I	166	8
I	171	7
I	175	7
I	180	6
I	183	5
I	184	5
I	186	5
I	0	0
I	0	0



ROUND NUMBER -- 295

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --W-W, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) --326.75

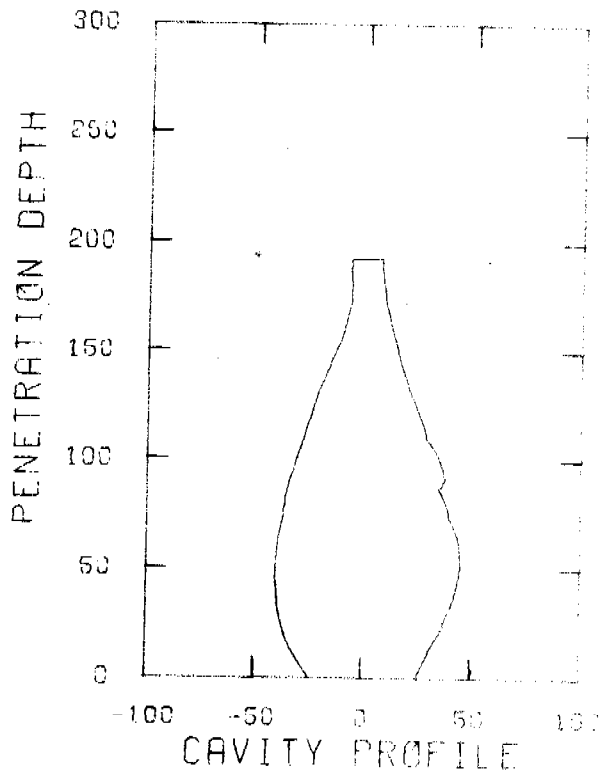
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-6	106	106
16	187	187
44	190	190
66	190	190
88	207	207
124	190	195
128	198	200

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	24
I 4	27
I 9	30
I 13	32
I 18	34
I 22	36
I 27	38
I 32	39
I 36	40
I 41	41
I 45	42
I 50	42
I 54	42
I 59	42
I 64	41
I 68	40
I 73	38
I 77	37
I 82	36
I 86	34
I 91	35
I 95	34
I 100	32
I 104	30
I 109	28
I 114	27
I 118	25
I 123	23
I 127	22
I 132	20
I 136	18
I 141	16
I 146	15
I 150	13
I 155	12
I 159	10
I 164	9
I 168	8
I 173	7
I 177	7
I 182	7
I 187	6
I 189	6
I 191	6
I 192	6



ROUND NUMBER - 35

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE - W-W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) - 330.51

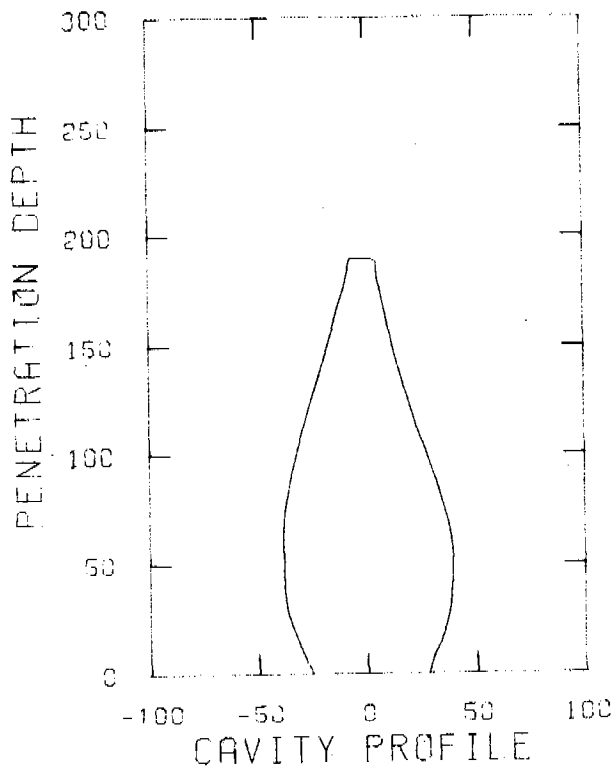
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

I CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
9	90	90
34	161	163
62	194	195
87	229	229
108	179	179

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	26
I 4	28
I 9	30
I 14	32
I 18	34
I 23	35
I 27	37
I 32	37
I 37	38
I 41	38
I 46	38
I 51	38
I 55	39
I 60	38
I 64	38
I 69	37
I 73	36
I 78	35
I 83	34
I 88	33
I 92	32
I 97	30
I 101	29
I 106	27
I 111	26
I 115	24
I 120	23
I 125	22
I 129	20
I 134	19
I 138	17
I 143	16
I 148	15
I 152	14
I 157	12
I 162	11
I 167	10
I 171	9
I 176	8
I 180	7
I 185	6
I 188	6
I 189	5
I 0	0
I 0	0



ROUND NUMBER - 141

PROJECTILE MASS (GM)- 7.128

PROJECTILE TYPE -W-W, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) -360.71

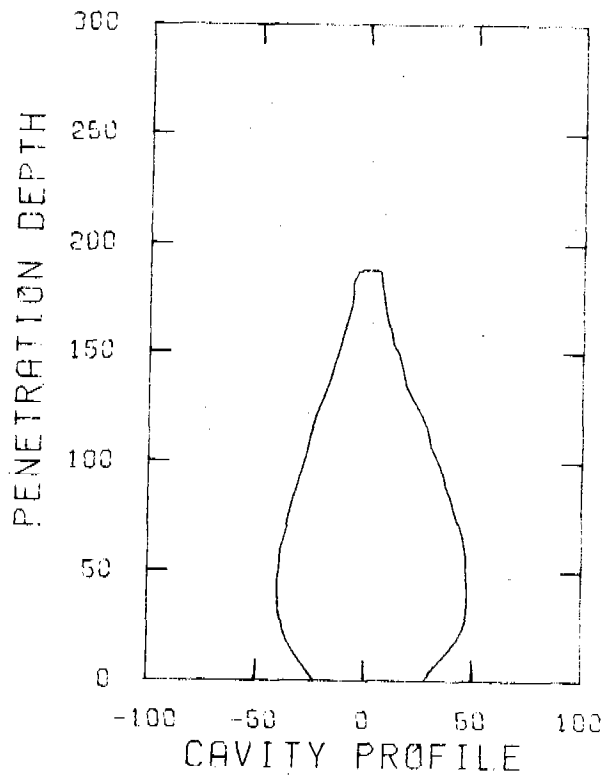
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	107	107
37	243	243
66	235	236
91	243	243
112	247	247

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	25
I	4	28
I	9	32
I	13	36
I	18	39
I	23	41
I	27	42
I	32	43
I	37	43
I	41	43
I	46	43
I	51	43
I	55	43
I	60	42
I	65	41
I	69	39
I	74	38
I	79	37
I	83	36
I	88	34
I	93	33
I	97	31
I	102	29
I	107	28
I	112	27
I	116	26
I	121	24
I	125	22
I	130	19
I	135	17
I	140	16
I	144	15
I	149	13
I	153	11
I	158	10
I	163	9
I	168	8
I	172	7
I	177	6
I	181	6
I	186	5
I	187	3



ROUND NUMBER = 34

PROJECTILE MASS (GM) = 7.128

PROJECTILE TYPE -M-W,JHP,.357 MAG

PROJECTILE VELOCITY (MPS) = 364.85

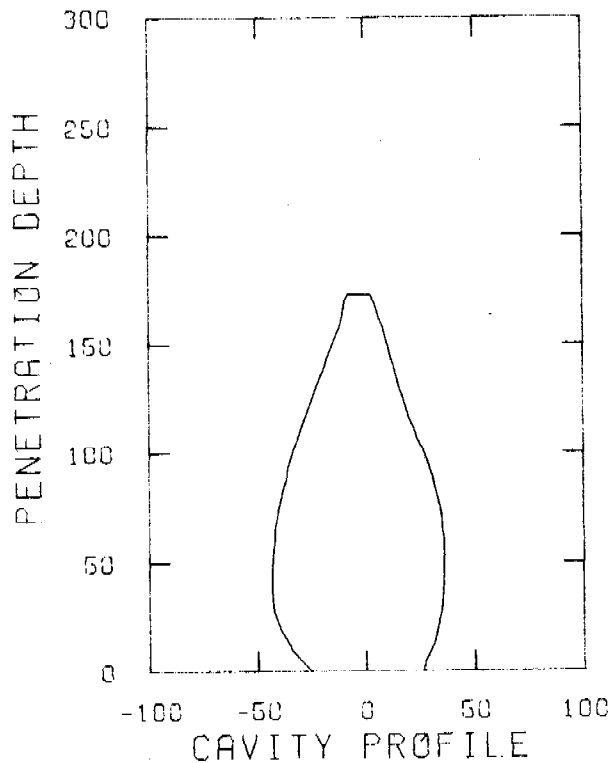
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	25
I	4	28
I	9	31
I	13	33
I	18	35
I	23	37
I	27	38
I	32	39
I	37	39
I	41	39
I	46	39
I	51	39
I	55	39
I	60	38
I	65	38
I	69	37
I	74	37
I	78	36
I	83	34
I	88	33
I	93	32
I	97	30
I	102	29
I	106	27
I	111	25
I	116	23
I	121	22
I	125	20
I	130	18
I	134	17
I	139	15
I	144	14
I	148	12
I	153	11
I	158	9
I	162	8
I	167	6
I	170	6
I	173	4



ROUND NUMBER -- 294

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --M-W, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) --380.09

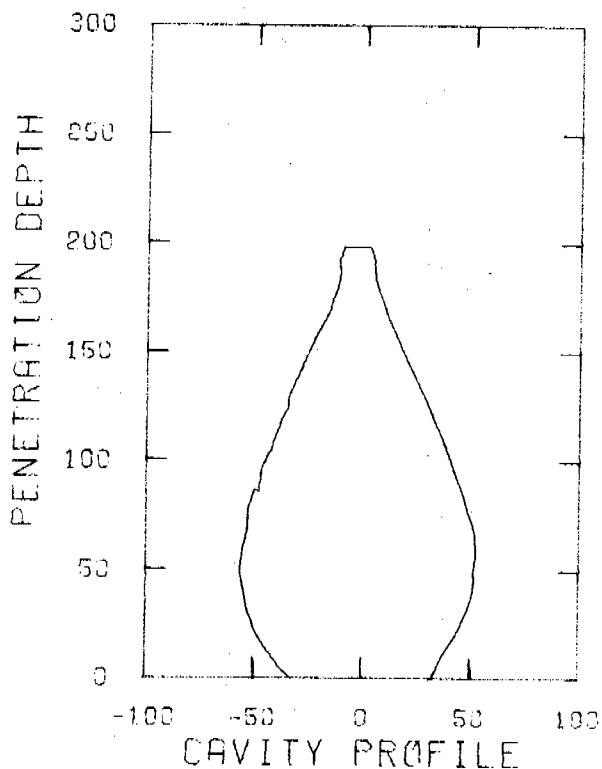
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-2	156	156
22	267	267
51	280	280
73	283	283
96	270	270
130	268	268
134	267	267

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	32
I	4	36
I	9	38
I	13	41
I	18	44
I	23	47
I	27	49
I	32	51
I	36	52
I	41	53
I	45	53
I	50	54
I	55	54
I	59	53
I	64	53
I	68	52
I	73	51
I	77	50
I	82	49
I	87	47
I	91	45
I	96	44
I	100	42
I	105	40
I	109	38
I	114	36
I	119	34
I	123	32
I	128	31
I	132	29
I	137	27
I	142	25
I	146	23
I	151	21
I	155	19
I	160	16
I	164	14
I	169	12
I	174	11
I	178	9
I	183	7
I	187	7
I	192	7
I	196	6
I	198	5



ROUND NUMBER -- 286

PROJECTILE MASS (GM) -- 7.128

PROJECTILE TYPE --W-W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) --390.14

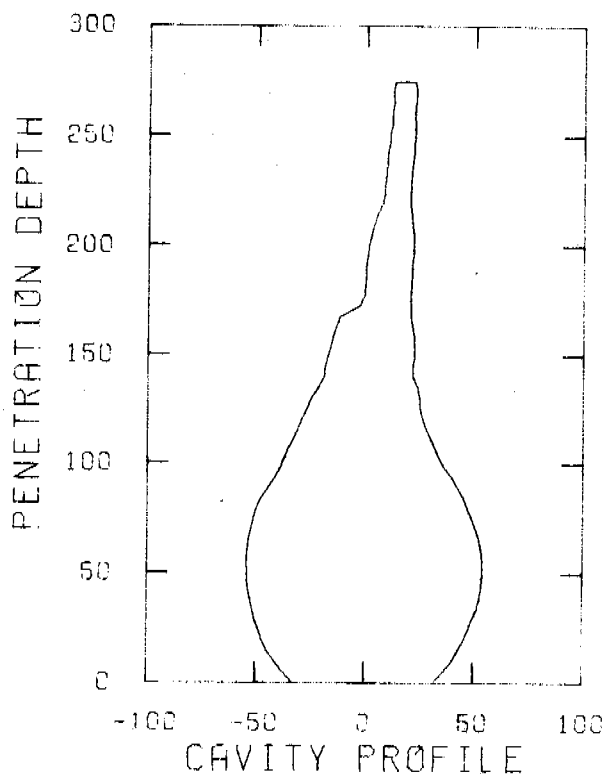
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-4	122	122
21	309	309
53	141	141
78	106	106
103	119	119
145	108	108
152	117	117

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	32
4	36
9	40
14	43
15	46
23	48
23	49
32	51
37	52
42	53
46	54
51	54
55	54
60	53
65	52
69	51
74	50
79	48
83	46
88	43
93	40
97	37
102	35
106	33
111	31
116	29
121	27
125	25
130	24
134	22
139	20
144	19
148	19
153	19
158	18
162	17
167	16
172	11
176	10
181	10
186	10
190	10
195	10
199	10
204	9
209	8
214	7
218	6



ROUND NUMBER 286 CONTINUED

I	223	5
I	227	5
I	232	5
I	237	5
I	241	6
I	246	5
I	251	5
I	255	5
I	260	5
I	265	4
I	269	5
I	274	4

ROUND NUMBER - 33

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -W-W,JHP,.357 MAG

PROJECTILE VELOCITY (MPS) -403.86

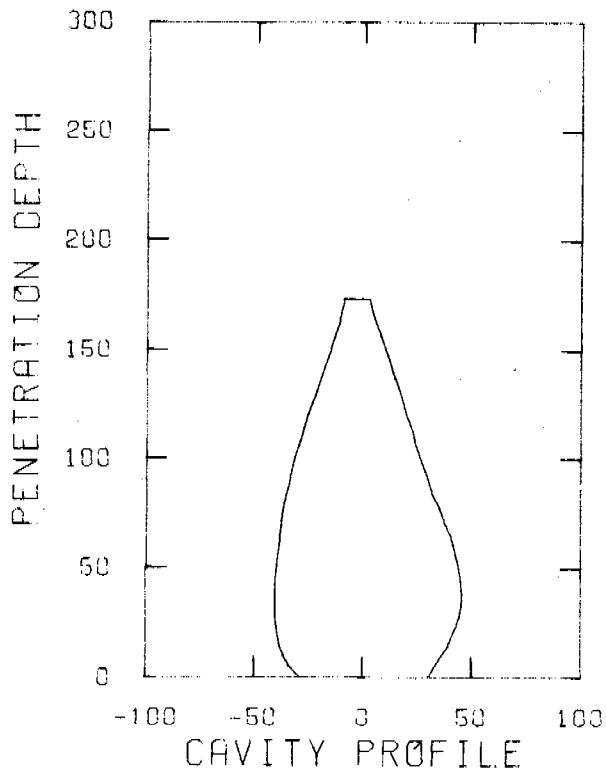
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	29
4	33
9	36
14	38
18	40
23	41
27	42
32	43
37	43
41	43
46	42
51	41
55	40
60	40
65	39
69	37
74	36
79	35
83	33
88	32
92	31
97	29
102	28
106	26
111	25
116	23
120	22
125	20
129	19
134	17
139	16
143	14
148	13
153	11
157	10
162	8
166	7
171	6
173	5



ROUND NUMBER - 140

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -W-W, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) -406.94

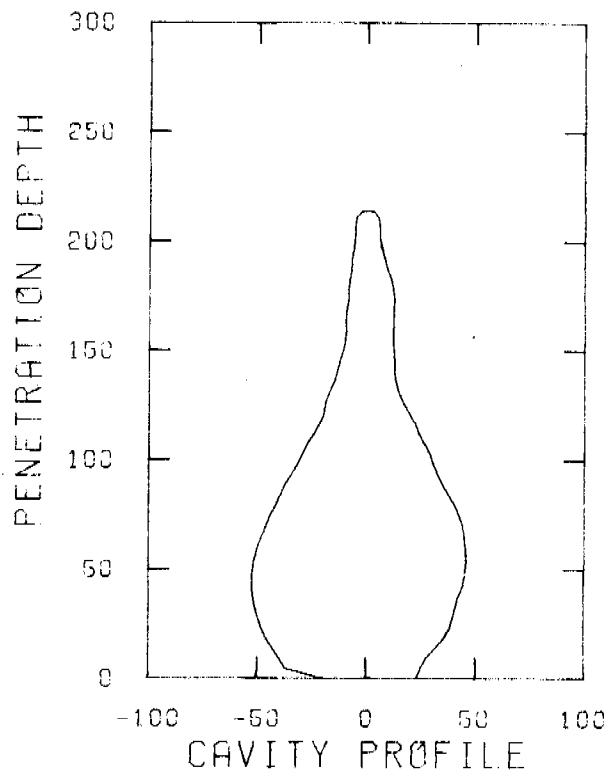
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
14	110	110
41	291	291
75	128	128
100	131	131
123	124	124

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	21
I	4	31
I	9	33
I	13	37
I	18	41
I	23	43
I	28	45
I	32	46
I	37	47
I	42	48
I	46	49
I	51	49
I	56	48
I	60	47
I	65	46
I	70	45
I	74	43
I	79	40
I	84	38
I	89	36
I	93	33
I	98	31
I	103	29
I	108	26
I	112	23
I	117	21
I	122	19
I	126	17
I	131	15
I	136	13
I	140	12
I	145	12
I	150	11
I	154	10
I	159	10
I	164	10
I	168	10
I	173	10
I	178	10
I	182	9
I	187	8
I	192	7
I	197	6
I	201	5
I	206	5
I	210	4
I	213	2
I	0	0



ROUND NUMBER = 31

PROJECTILE MASS (GM) = 7.128

PROJECTILE TYPE -W-W,JHP,.357 MAG

PROJECTILE VELOCITY (MPS) = 499.08

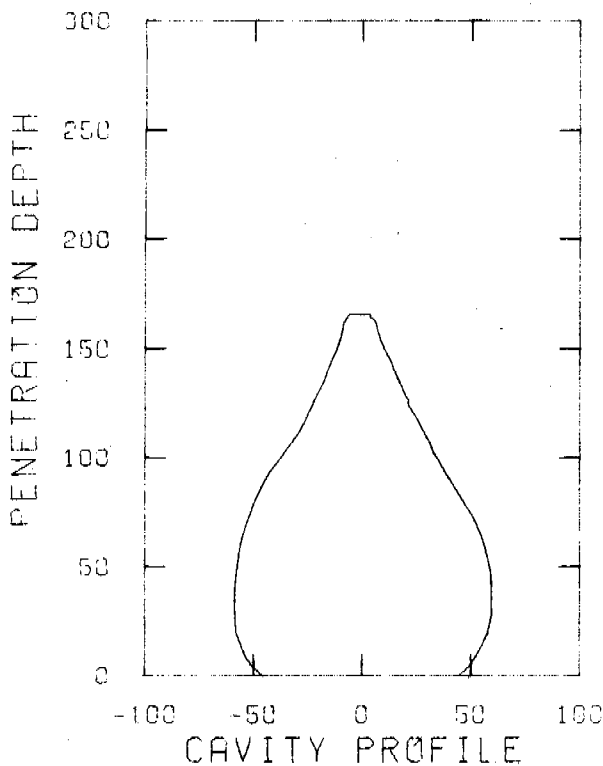
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	45
4	50
9	53
14	55
18	57
23	58
28	59
32	59
37	59
42	58
46	58
51	57
56	56
60	55
65	54
70	52
74	50
79	48
83	45
88	43
93	40
97	37
102	34
107	31
111	28
116	26
121	23
123	22
126	21
130	19
135	17
140	15
144	13
149	11
153	9
158	7
162	7
164	5
165	4



ROUND NUMBER -- 328

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) --210.31

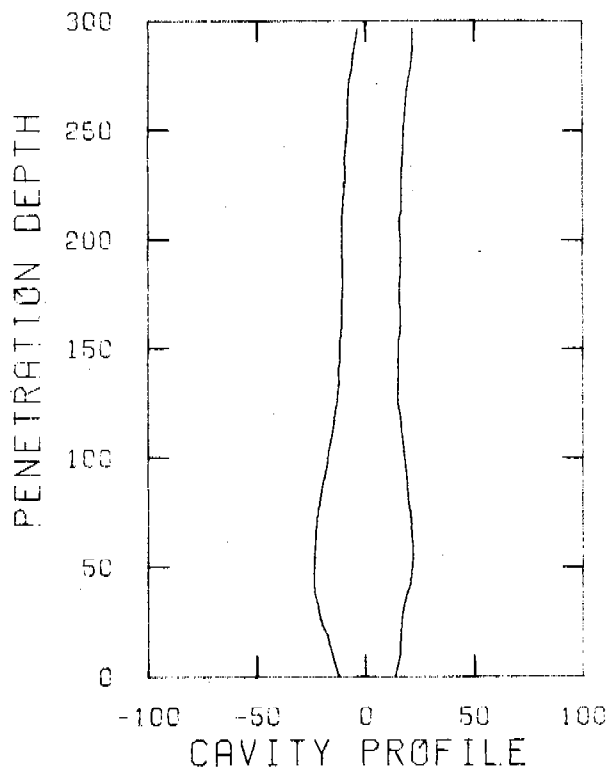
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-14	60	60
2	50	50
25	60	60
49	60	61
74	68	68
127	62	63
136	70	71

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	12
I	4	14
I	9	15
I	13	16
I	18	16
I	23	18
I	27	19
I	32	20
I	37	21
I	41	22
I	46	22
I	51	22
I	55	22
I	60	22
I	64	22
I	69	21
I	74	21
I	78	20
I	83	19
I	88	19
I	92	18
I	97	17
I	101	17
I	106	16
I	111	15
I	115	15
I	120	14
I	125	13
I	129	13
I	134	13
I	139	13
I	143	13
I	148	13
I	152	13
I	157	13
I	162	13
I	166	13
I	171	13
I	176	12
I	180	13
I	185	13
I	189	13
I	194	13
I	199	13
I	203	13
I	208	13
I	213	13
I	217	13



ROUND NUMBER 328 CONTINUED

I	222	13
I	226	13
I	231	13
I	236	13
I	240	13
I	245	13
I	250	12
I	254	12
I	259	13
I	264	13
I	268	13
I	273	13
I	277	13
I	282	13
I	287	13
I	291	13
I	296	12
I	301	12
I	305	11
I	310	10
I	315	9

ROUND NUMBER = 29

PROJECTILE MASS (GM) - 10.238

PROJECTILE TYPE - W-W, JHP, .357 MAG

PROJECTILE VELOCITY (MPS) - 218.01

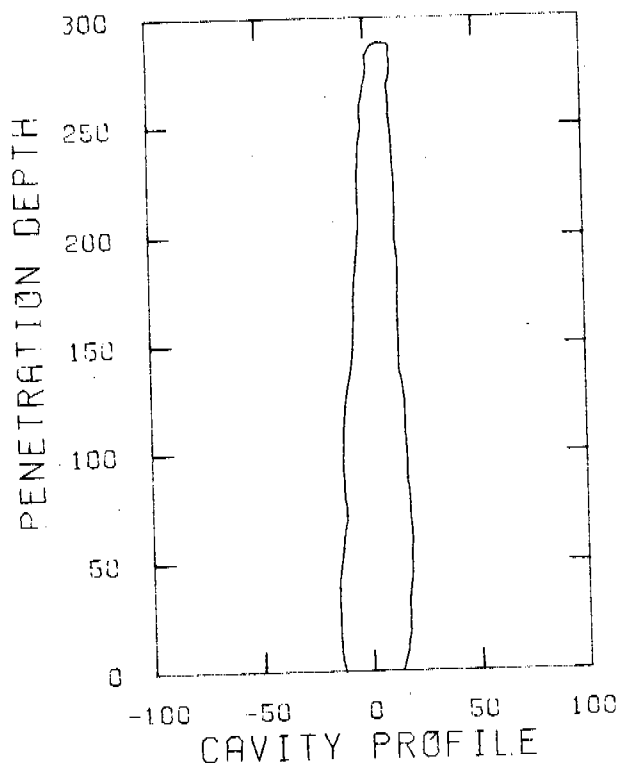
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	13
I	4	14
I	9	15
I	13	15
I	18	16
I	22	16
I	27	16
I	32	16
I	36	16
I	41	16
I	46	16
I	50	16
I	55	15
I	60	15
I	64	15
I	69	14
I	73	14
I	78	14
I	83	14
I	87	14
I	92	14
I	97	14
I	101	14
I	106	14
I	111	14
I	115	13
I	120	13
I	124	13
I	129	12
I	134	11
I	138	10
I	143	10
I	148	10
I	152	10
I	157	10
I	162	9
I	166	10
I	171	9
I	175	10
I	180	9
I	185	9
I	189	9
I	194	8
I	199	8
I	203	8
I	208	8
I	212	8
I	217	8



ROUND NUMBER 29 CONTINUED

1	222	8
1	227	8
1	231	7
1	236	7
1	240	7
1	245	7
1	250	6
1	254	6
1	259	6
1	263	5
1	268	5
1	273	5
1	277	5
1	282	5
1	286	4
1	288	2
1	0	0
1	0	0

ROUND NUMBER -- 327

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) --267.00

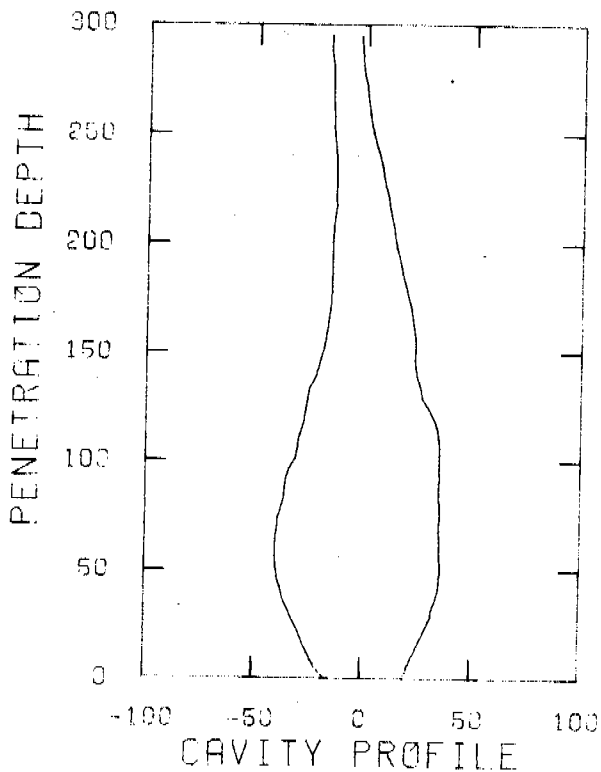
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-10	73	73
9	140	140
35	123	123
62	127	127
88	129	131
138	144	144
146	120	124

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	17
I	4	21
I	9	23
I	13	25
I	18	27
I	23	29
I	27	31
I	32	33
I	36	35
I	41	36
I	46	37
I	50	37
I	55	37
I	60	38
I	64	37
I	69	37
I	73	37
I	78	36
I	82	35
I	87	35
I	92	35
I	96	34
I	101	33
I	105	32
I	110	32
I	115	31
I	119	29
I	124	28
I	129	26
I	133	25
I	138	23
I	142	22
I	147	21
I	152	20
I	156	20
I	161	19
I	166	19
I	170	18
I	175	17
I	179	16
I	184	16
I	189	15
I	193	15
I	198	14
I	203	14
I	207	13
I	212	12
I	216	11



ROUND NUMBER 327 CONTINUED

I	221	11
I	225	11
I	230	10
I	235	10
I	240	9
I	244	9
I	249	9
I	253	8
I	258	8
I	263	8
I	267	7
I	272	7
I	276	7
I	281	6
I	285	7
I	290	6
I	295	6
I	300	6
I	304	6
I	309	5
I	313	5
I	318	4
I	322	4
I		

ROUND NUMBER - 26

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W,JHP,.357 MAG

PROJECTILE VELOCITY (MPS) -277.89

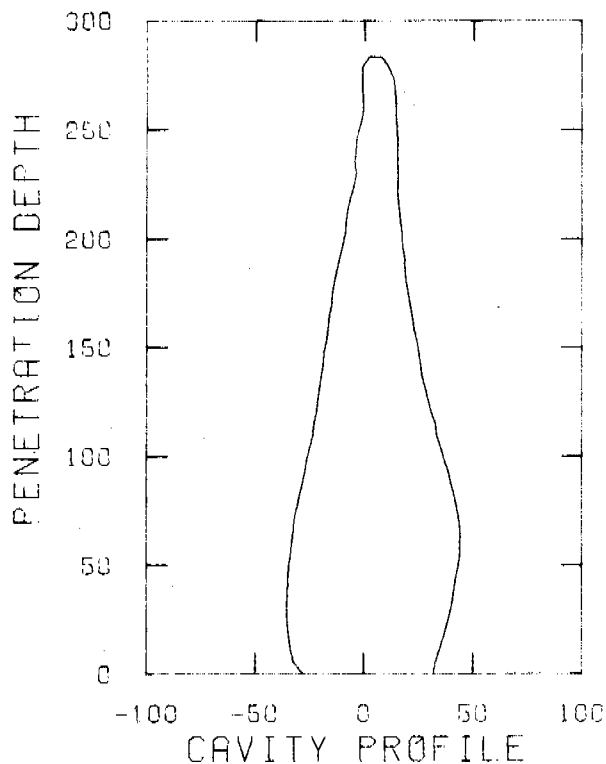
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	30
I	5	32
I	10	34
I	16	35
I	21	36
I	26	37
I	32	38
I	37	38
I	43	38
I	48	38
I	54	38
I	59	38
I	65	38
I	70	37
I	76	36
I	81	35
I	87	33
I	92	32
I	98	31
I	103	29
I	109	28
I	114	27
I	120	26
I	125	25
I	130	24
I	136	23
I	142	22
I	147	21
I	153	20
I	158	19
I	163	18
I	169	17
I	174	17
I	180	16
I	185	15
I	191	14
I	197	13
I	202	12
I	207	12
I	213	11
I	218	10
I	224	9
I	229	9
I	235	9
I	240	9
I	246	9
I	251	8
I	257	7



ROUND NUMBER 26 CONTINUED

1	262	7
1	268	7
1	273	6
1	279	5
1	283	2
1	0	0

ROUND NUMBER - 25

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W,JHP,.357 MAG

PROJECTILE VELOCITY (MPS) -289.48

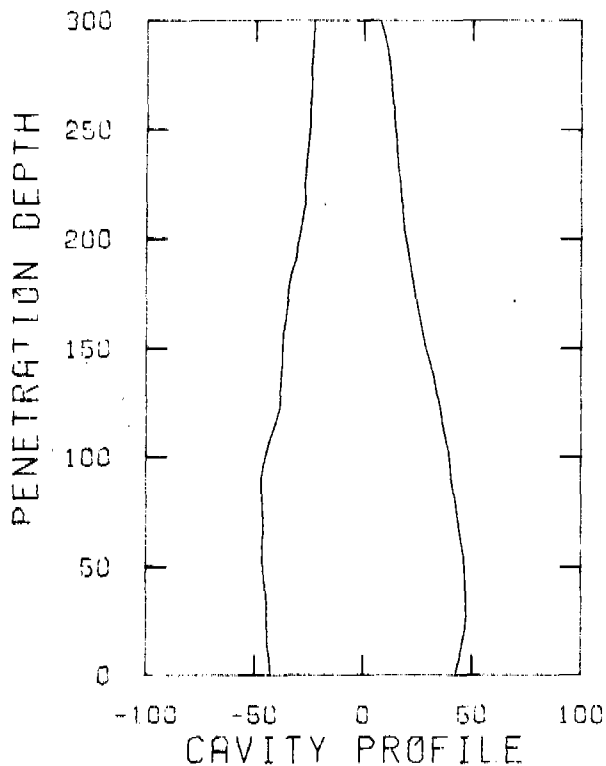
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	42
7	43
13	44
20	45
27	46
33	46
40	46
47	46
54	46
61	45
68	44
75	44
81	44
88	43
95	42
102	41
108	40
115	38
122	36
129	35
136	35
143	33
149	32
156	31
163	30
170	29
177	28
184	27
191	25
197	24
204	23
211	22
218	21
224	21
231	20
238	20
245	19
252	19
258	19
265	18
272	18
279	17
286	16
293	16
299	14
306	14
313	14
320	13



ROUND NUMBER 25 CONTINUED

I	326	13
I	333	13
I	340	12
I	347	10
I	354	9
I	361	8
I	367	8
I	374	8
I	381	4
I	384	2
I	0	0
I	0	0

ROUND NUMBER -- 300

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, JHP, .38 SPEC PROJECTILE VELOCITY (MPS) --291.39

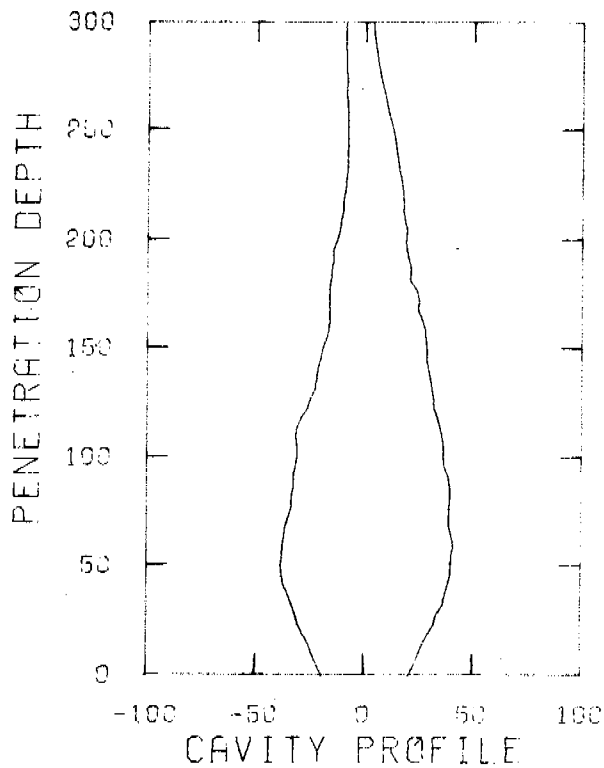
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
8	85	86
13	96	98
43	103	103
69	99	100
97	98	101
152	96	108
160	101	116

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	20
4	22
9	24
13	26
18	28
22	31
27	32
31	34
36	36
41	38
45	39
50	39
54	39
58	39
63	38
68	37
72	36
77	36
81	36
86	35
90	35
95	34
99	33
104	33
109	33
113	32
117	31
122	28
126	28
131	26
136	26
140	25
145	24
149	23
154	22
158	22
163	21
167	20
172	20
176	19
181	17
185	18
190	17
195	16
199	15
204	15
208	14
213	13



ROUND NUMBER 300 CONTINUED

I	217	13
I	222	13
I	226	12
I	231	11
I	235	11
I	240	10
I	244	10
I	249	10
I	254	9
I	258	9
I	263	8
I	267	8
I	272	7
I	276	7
I	281	7
I	285	6
I	290	6
I	294	6
I	299	6
I	303	5
I	308	5
I	312	5
I	317	4
I		

ROUND NUMBER = 30

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W,JHP,.357 MAG

PROJECTILE VELOCITY (MPS) -302.07

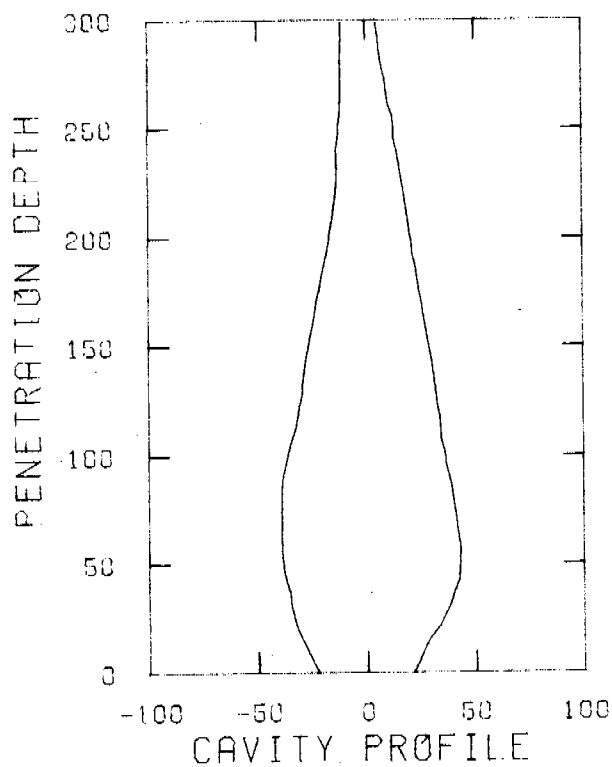
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	21
5	24
10	27
15	29
21	32
26	34
31	37
37	38
42	40
47	40
53	41
58	41
63	40
69	40
74	40
79	39
85	39
90	38
95	36
101	36
106	34
111	33
117	32
122	31
128	30
133	30
138	29
144	28
149	27
154	26
160	25
165	24
170	24
176	22
181	21
186	21
192	19
197	19
202	18
208	17
213	16
218	15
224	15
229	14
234	14
240	13
245	12
250	12



ROUND NUMBER 30 CONTINUED

1	256	11
1	261	10
1	266	10
1	272	10
1	277	9
1	283	9
1	288	8
1	293	8
1	298	7
1	304	7
1	309	7
1	315	7
1	320	6
1	325	3
1	327	1

ROUND NUMBER - 27

PROJECTILE MASS (GM)-10.234

PROJECTILE TYPE -W-W,JHP,.357 MAG

PROJECTILE VELOCITY (MPS) -302.69

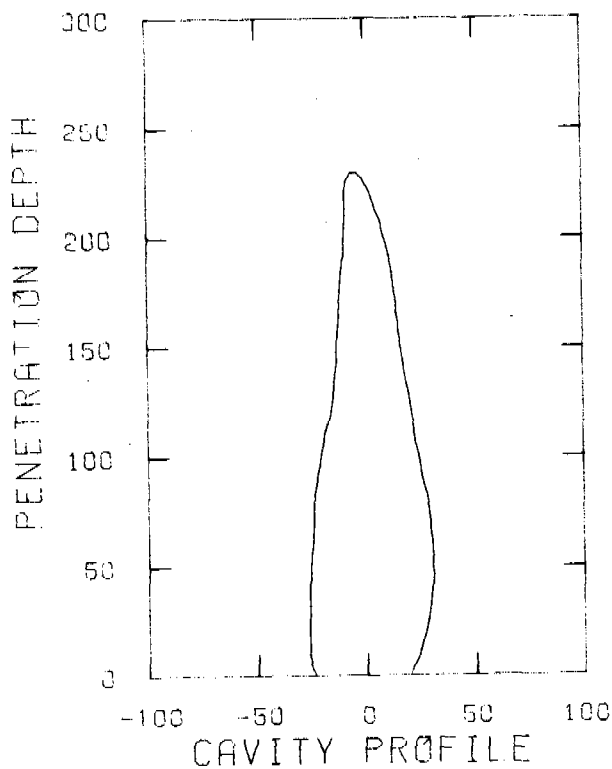
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	21
4	23
9	25
13	25
18	26
23	27
27	27
32	27
36	28
41	28
46	28
50	28
55	27
59	27
64	27
69	26
73	26
78	26
83	25
87	24
92	23
97	22
101	22
106	20
110	20
115	19
119	18
124	17
129	17
133	16
138	15
143	15
147	14
152	14
156	13
161	13
165	13
170	12
175	12
180	11
184	11
189	10
193	9
198	9
202	8
207	8
212	6
216	6



ROUND NUMBER 27 CONTINUED

1	221	5
1	226	3
1	229	1

ROUND NUMBER - 28

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W,JHP,.357 MAG

PROJECTILE VELOCITY (MPS) -324.76

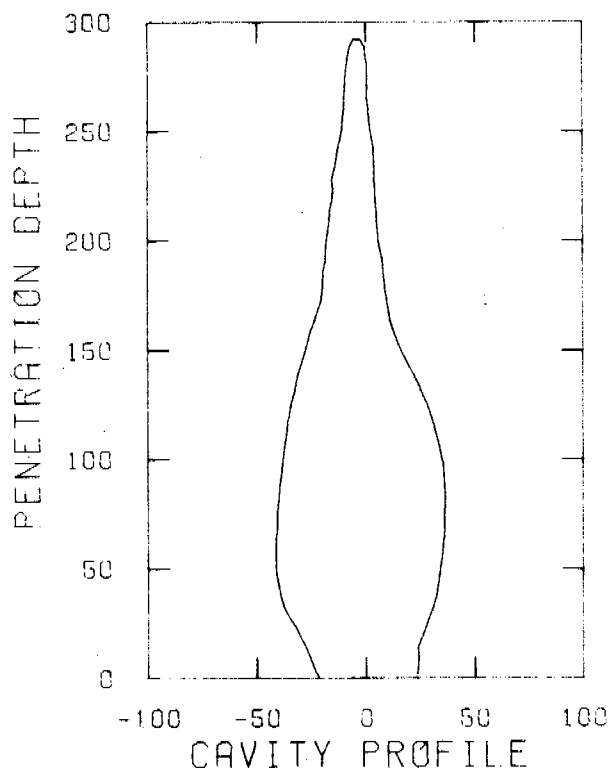
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	22
I	4	23
I	9	25
I	14	25
I	18	28
I	23	30
I	27	32
I	32	34
I	37	36
I	42	36
I	46	37
I	51	37
I	55	38
I	60	38
I	65	38
I	69	38
I	74	38
I	79	38
I	83	38
I	88	37
I	93	37
I	97	36
I	102	36
I	107	35
I	111	34
I	116	33
I	121	32
I	125	30
I	130	29
I	135	27
I	139	26
I	144	24
I	149	22
I	153	20
I	158	19
I	163	17
I	167	16
I	172	15
I	177	14
I	181	13
I	186	13
I	191	12
I	195	12
I	200	11
I	204	11
I	209	10
I	214	10
I	218	9



ROUND NUMBER 2A CONTINUED

I	223	9
I	228	9
I	233	8
I	237	8
I	242	7
I	247	6
I	251	6
I	256	5
I	261	5
I	265	4
I	270	4
I	274	4
I	279	4
I	284	3
I	288	3
I	292	1
I	0	0
I	0	0

ROUND NUMBER - 24

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W,JHP,.357 MAG

PROJECTILE VELOCITY (MPS) -325.82

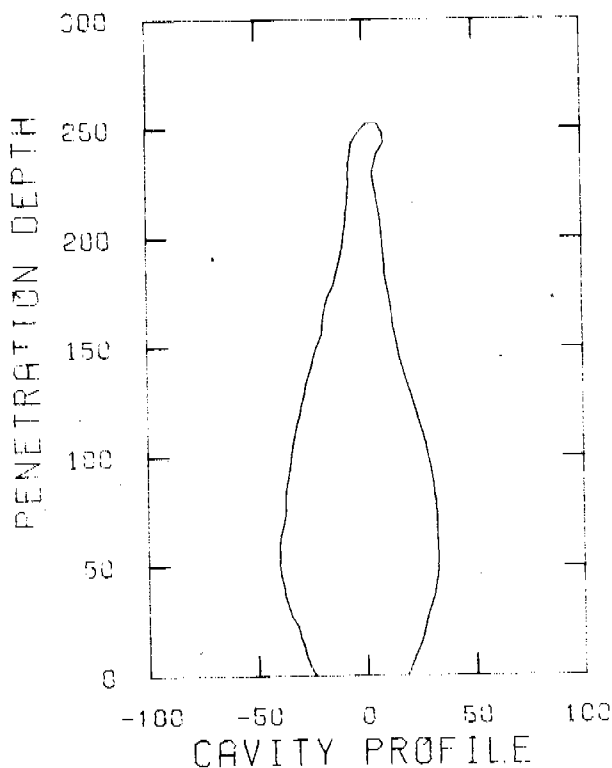
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	21
4	23
8	25
13	26
18	28
22	29
27	31
31	32
36	34
41	35
45	36
50	36
54	36
59	36
64	35
68	35
73	34
77	34
82	34
87	33
91	32
96	31
100	31
105	30
110	29
114	27
119	26
123	25
128	24
133	23
137	21
142	20
146	19
151	18
155	16
160	16
165	15
169	14
174	13
178	12
183	10
188	10
192	9
197	8
202	8
206	7
211	7
215	6



ROUND NUMBER 24 CONTINUED

1	220	6
1	224	5
1	229	5
1	234	5
1	238	6
1	243	7
1	247	5
1	252	2
1	0	0

ROUND NUMBER -- 299

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, JHP, .38 S&W PROJECTILE VELOCITY (MPS) --334.67

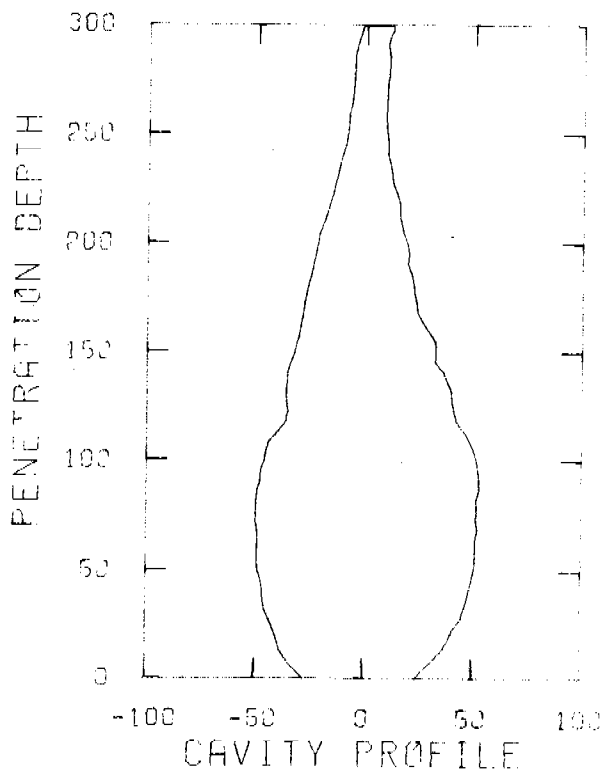
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
6	100	103
17	211	214
47	181	184
75	178	183
103	173	184
153	153	175
160	162	184

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	25
I	4	30
I	9	34
I	13	37
I	18	39
I	22	41
I	27	44
I	31	46
I	36	47
I	40	47
I	45	48
I	50	50
I	54	50
I	59	50
I	63	50
I	68	50
I	72	50
I	77	51
I	81	50
I	86	51
I	90	50
I	95	50
I	99	48
I	104	47
I	108	46
I	113	42
I	117	39
I	122	38
I	126	37
I	131	38
I	136	36
I	140	35
I	145	33
I	149	32
I	154	31
I	158	29
I	163	27
I	167	26
I	172	25
I	174	24
I	181	23
I	185	22
I	190	21
I	194	21
I	199	20
I	204	19
I	208	17
I	213	16



ROUND NUMBER 299 CONTINUED

I	217	15
I	222	14
I	226	12
I	231	12
I	235	11
I	240	10
I	245	9
I	249	8
I	254	8
I	258	8
I	263	7
I	267	7
I	272	7
I	276	7
I	281	7
I	285	7
I	290	6
I	294	6
I	296	6
I	299	6
I		

ROUND NUMBER = 22

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) -342.65

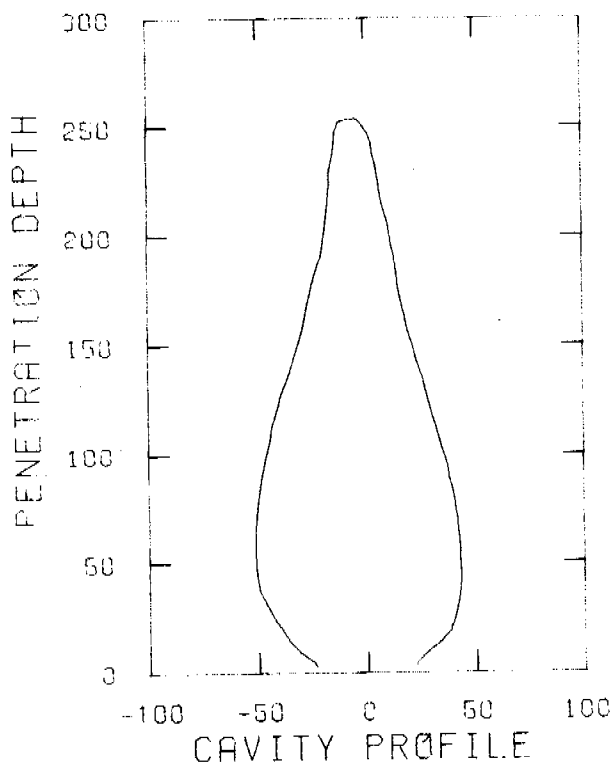
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	20
I	4	23
I	9	29
I	14	34
I	18	38
I	23	41
I	27	43
I	32	44
I	37	46
I	42	46
I	46	47
I	51	47
I	56	47
I	60	46
I	65	46
I	70	46
I	74	45
I	79	45
I	84	44
I	88	43
I	93	42
I	98	41
I	102	39
I	107	38
I	112	37
I	116	36
I	121	35
I	126	33
I	130	32
I	135	30
I	140	29
I	144	27
I	149	26
I	154	24
I	159	23
I	163	22
I	168	21
I	172	20
I	177	19
I	182	18
I	187	17
I	191	16
I	196	15
I	200	14
I	205	14
I	210	13
I	215	12
I	205	5



ROUND NUMBER 22 CONTINUED

I	224	11
I	228	10
I	233	10
I	238	8
I	242	8
I	247	7
I	252	4
I	253	2
I	0	0

ROUND NUMBER - 23

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) -344.63

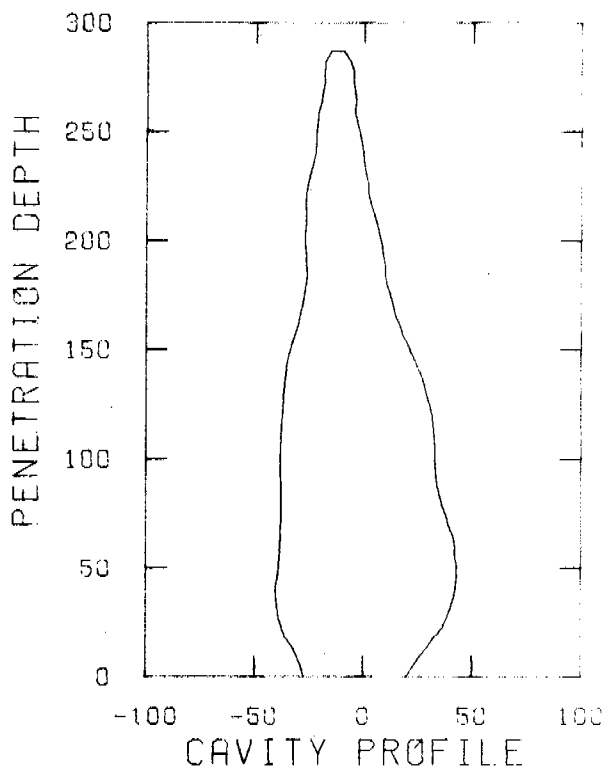
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	23
I	4	25
I	9	29
I	13	31
I	18	34
I	22	37
I	27	38
I	32	39
I	36	41
I	41	41
I	46	41
I	50	40
I	55	40
I	59	40
I	64	39
I	69	38
I	73	37
I	78	36
I	83	36
I	87	35
I	92	35
I	96	35
I	101	35
I	106	35
I	110	35
I	115	34
I	120	34
I	124	33
I	129	32
I	134	32
I	138	30
I	143	29
I	147	28
I	152	26
I	157	24
I	161	23
I	166	21
I	171	20
I	175	19
I	180	18
I	184	17
I	189	17
I	194	17
I	198	17
I	203	16
I	208	16
I	212	15
I	217	14



ROUND NUMBER 23 CONTINUED

I	221	14
I	226	13
I	231	12
I	235	11
I	240	10
I	244	10
I	249	9
I	254	8
I	259	8
I	263	7
I	268	7
I	272	6
I	277	6
I	281	5
I	286	2

ROUND NUMBER - 21

PROJECTILE MASS (GM)-10.234

PROJECTILE TYPE -W-W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) -366.65

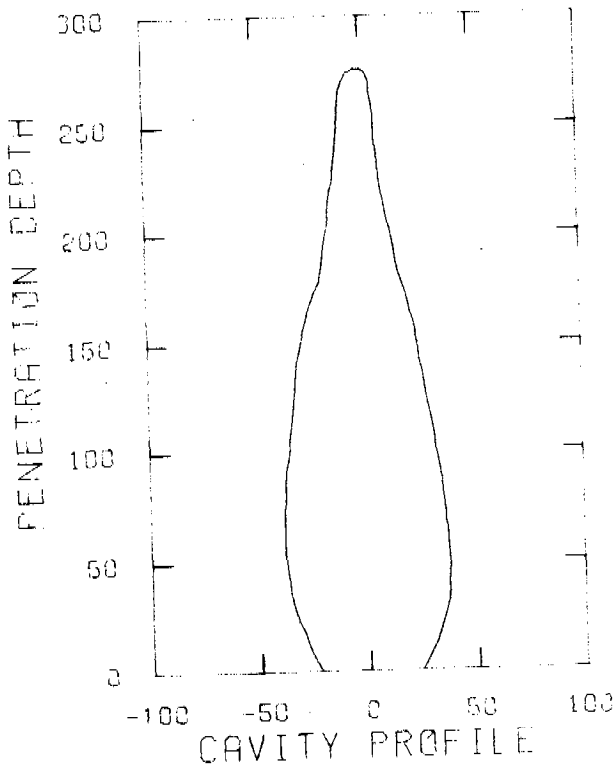
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

I CAVITY MEASUREMENTS

I	J	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	I	0	23
I	I	4	25
I	I	9	28
I	I	13	29
I	I	18	31
I	I	22	33
I	I	27	34
I	I	31	36
I	I	36	36
I	I	41	37
I	I	45	37
I	I	50	37
I	I	54	37
I	I	59	37
I	I	64	37
I	I	68	37
I	I	73	37
I	I	77	36
I	I	82	36
I	I	86	36
I	I	91	35
I	I	96	34
I	I	100	33
I	I	105	33
I	I	109	32
I	I	114	32
I	I	119	31
I	I	123	30
I	I	128	30
I	I	132	29
I	I	137	28
I	I	141	28
I	I	146	27
I	I	151	25
I	I	155	25
I	I	160	24
I	I	164	23
I	I	169	22
I	I	173	20
I	I	178	19
I	I	183	17
I	I	187	16
I	I	192	16
I	I	196	15
I	I	201	14
I	I	205	13
I	I	210	13
I	I	215	12



ROUND NUMBER 21 CONTINUED

I	219	11
I	224	10
I	228	10
I	233	9
I	237	9
I	242	8
I	246	8
I	251	8
I	256	8
I	260	7
I	265	6
I	269	6
I	274	4
I	275	1
I	0	0

ROUND NUMBER -- 298

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, JHP, .38 S&W PROJECTILE VELOCITY (MP9) --381.00

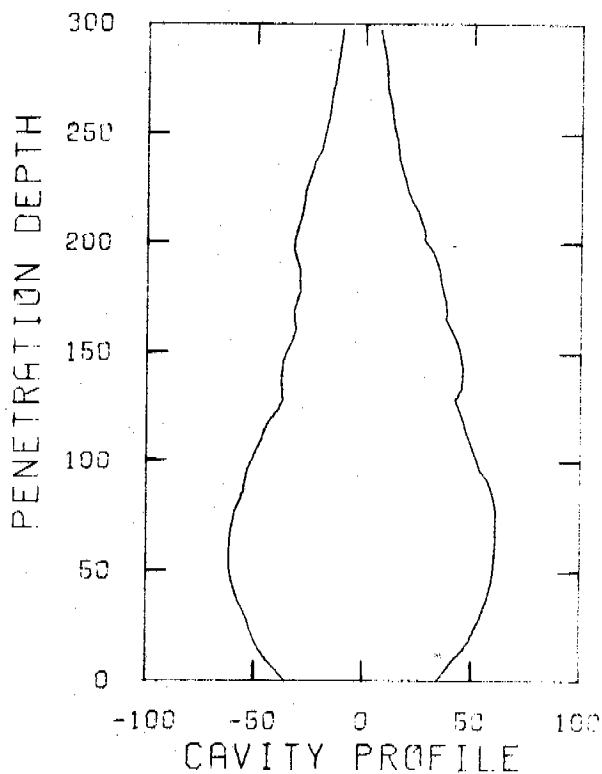
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	127	128
22	255	255
87	163	172
87	139	143
119	159	166
178	170	171
184	155	158

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	34
I 4	38
I 9	42
I 13	46
I 18	49
I 23	51
I 27	53
I 32	55
I 36	57
I 41	59
I 45	60
I 50	61
I 54	61
I 59	61
I 64	61
I 68	61
I 73	60
I 77	60
I 82	58
I 86	57
I 91	55
I 96	53
I 100	51
I 105	49
I 109	47
I 114	46
I 118	44
I 123	41
I 128	39
I 132	41
I 137	41
I 141	41
I 146	41
I 150	39
I 155	37
I 159	35
I 164	34
I 169	34
I 173	34
I 178	32
I 182	32
I 187	32
I 191	31
I 196	31
I 201	29
I 205	29
I 210	27
I 214	26



ROUND NUMBER 298 CONTINUED

I	219	24
I	223	23
I	228	21
I	233	20
I	237	19
I	242	17
I	246	16
I	251	15
I	256	14
I	260	13
I	265	13
I	269	12
I	274	11
I	278	11
I	283	10
I	287	9
I	292	9
I	297	8
I	301	7
I	306	7
I	311	6
I	315	6
I	320	6
I		

ROUND NUMBER -- 290

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) --389.23

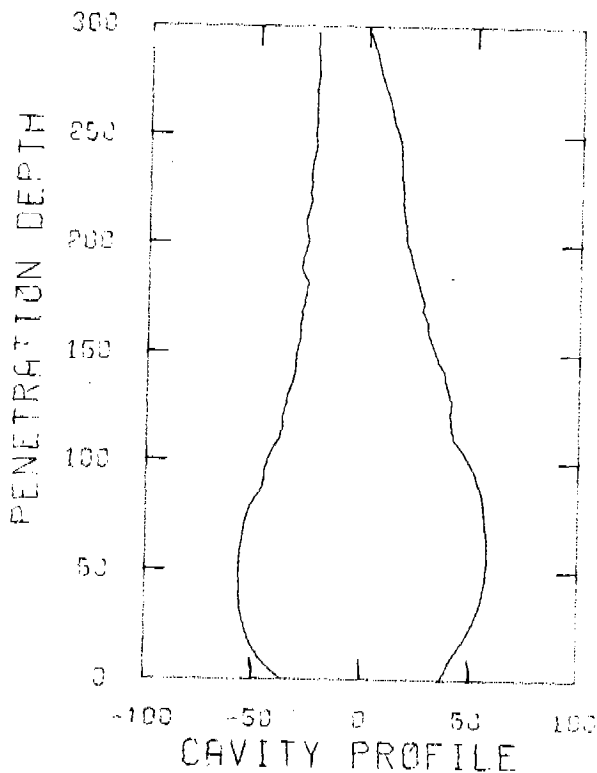
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	112	112
22	239	247
58	141	163
88	141	172
122	129	177
186	130	161
194	144	153

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	36
I	4	40
I	9	43
I	13	47
I	18	49
I	22	51
I	27	53
I	32	54
I	36	55
I	41	56
I	45	56
I	50	57
I	54	57
I	59	57
I	63	56
I	68	56
I	73	55
I	77	54
I	82	52
I	86	50
I	91	49
I	96	48
I	100	46
I	104	43
I	109	40
I	114	39
I	118	38
I	123	38
I	127	37
I	132	36
I	137	35
I	141	34
I	146	32
I	150	31
I	155	30
I	159	29
I	164	29
I	169	27
I	173	27
I	178	26
I	182	25
I	187	25
I	191	25
I	196	24
I	200	22
I	205	22
I	210	22
I	214	21



ROUND NUMBER 290 CONTINUED

I	219	20
I	223	21
I	228	20
I	232	20
I	237	20
I	242	19
I	246	19
I	251	18
I	255	17
I	260	17
I	264	16
I	269	15
I	274	14
I	278	14
I	283	13
I	287	13
I	292	12
I	297	11
I	301	10
I	306	10
I	310	9
I	315	8
I	319	8
I		

ROUND NUMBER - 20

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) -407.16

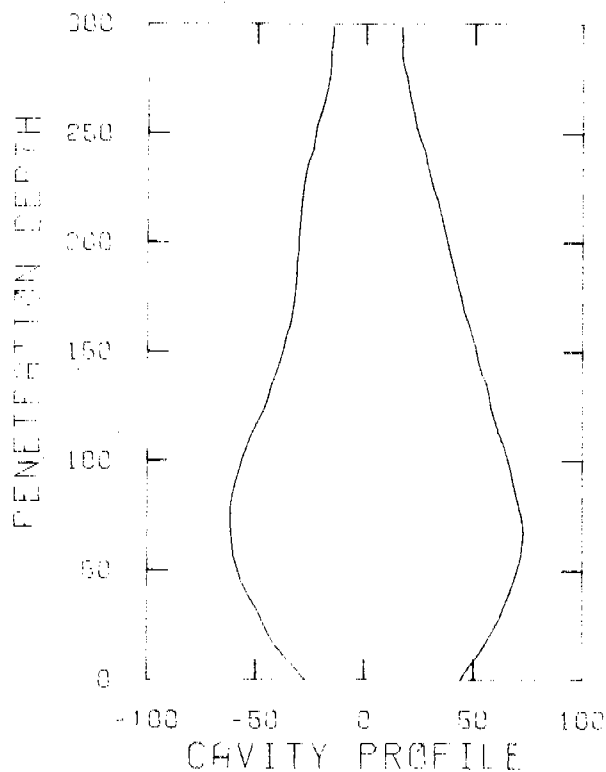
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	35
I	5	39
I	11	44
I	17	48
I	22	51
I	28	54
I	33	57
I	39	60
I	44	62
I	50	64
I	56	66
I	61	66
I	67	67
I	73	67
I	78	66
I	84	65
I	90	63
I	95	62
I	101	60
I	107	58
I	112	56
I	118	54
I	123	52
I	129	50
I	135	49
I	141	46
I	146	45
I	152	43
I	157	42
I	163	40
I	168	39
I	174	38
I	180	37
I	185	36
I	191	35
I	197	34
I	202	33
I	208	32
I	214	31
I	219	30
I	225	29
I	231	28
I	236	27
I	242	25
I	247	24
I	253	22
I	258	21
I	264	19



ROUND NUMBER 20 CONTINUED

I	270	18
I	275	17
I	281	16
I	287	16
I	292	15
I	298	15
I	304	15
I	309	14
I	315	14
I	321	13
I	326	13
I	332	13
I	337	13
I	343	12
I	349	12
I	354	11
I	360	10
I	366	10
I	371	9
I	377	9
I	383	9

ROUND NUMBER = 19

PROJECTILE MASS (GM) = 10.238

PROJECTILE TYPE = W-W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) = 408.84

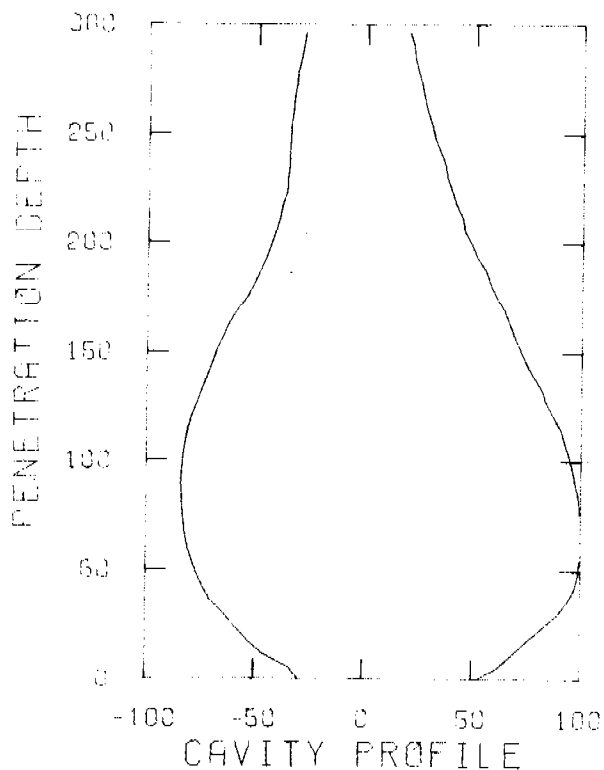
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	41
5	47
12	57
17	64
24	70
30	77
35	82
42	85
48	87
54	89
60	90
66	91
72	91
78	91
84	91
90	90
96	89
102	88
108	87
114	85
120	83
127	80
132	78
138	75
145	72
151	69
157	66
163	64
169	61
175	57
181	54
187	51
193	48
199	45
205	43
211	41
217	39
223	37
229	36
235	35
242	34
248	33
254	32
260	30
266	29
272	28
278	27
284	25



ROUND NUMBER 19 CONTINUED

I	290	25
I	296	23
I	302	21
I	308	20
I	314	19
I	320	18
I	327	16
I	332	16
I	338	15
I	344	14
I	351	12
I	356	12
I	363	11
I	369	11
I	374	11

ROUND NUMBER = 18

PROJECTILE MASS (GM) = 10.238

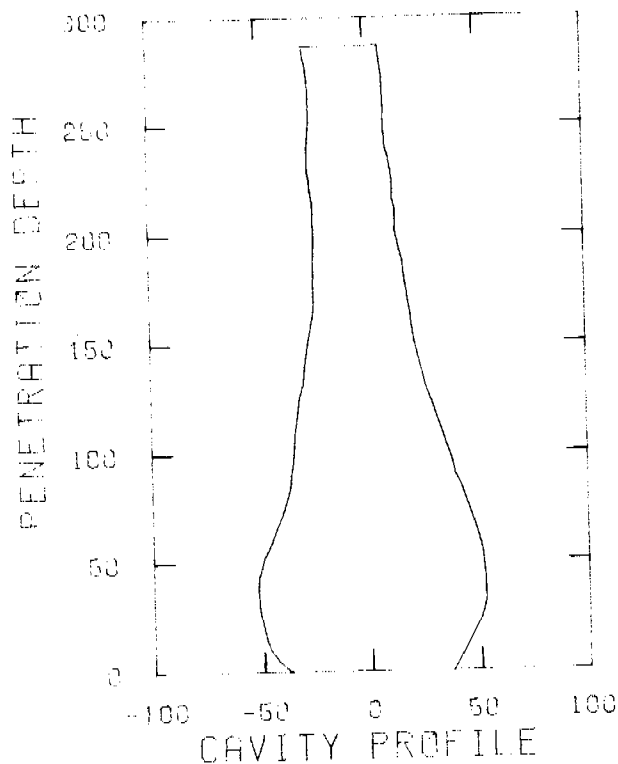
PROJECTILE TYPE = W-W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) = 459.86

PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	0	0	0	37
0	0	0	4	41
0	0	0	9	44
0	0	0	14	46
0	0	0	18	48
0	0	0	23	50
0	0	0	28	51
0	0	0	33	52
0	0	0	37	52
0	0	0	42	52
0	0	0	47	51
0	0	0	51	50
0	0	0	56	48
0	0	0	61	47
0	0	0	65	45
0	0	0	70	43
0	0	0	75	42
0	0	0	79	40
0	0	0	84	39
0	0	0	89	37
0	0	0	94	36
0	0	0	98	35
0	0	0	103	34
0	0	0	108	33
0	0	0	112	32
0	0	0	117	31
0	0	0	122	30
0	0	0	127	29
0	0	0	131	27
0	0	0	136	26
0	0	0	140	26
0	0	0	145	25
0	0	0	150	24
0	0	0	154	23
0	0	0	159	22
0	0	0	164	22
0	0	0	169	21
0	0	0	173	21
0	0	0	178	20
0	0	0	183	20
0	0	0	187	20
0	0	0	192	19
0	0	0	197	19
0	0	0	201	18
0	0	0	206	18
0	0	0	211	18
0	0	0	216	18
0	0	0	220	18



ROUND NUMBER 1A CONTINUED

I	225	18
I	230	19
I	235	18
I	239	17
I	244	17
I	248	16
I	253	16
I	258	17
I	262	16
I	267	16
I	272	17
I	277	17
I	281	17
I	286	17
I	0	0

ROUND NUMBER = 17

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) -467.06

PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

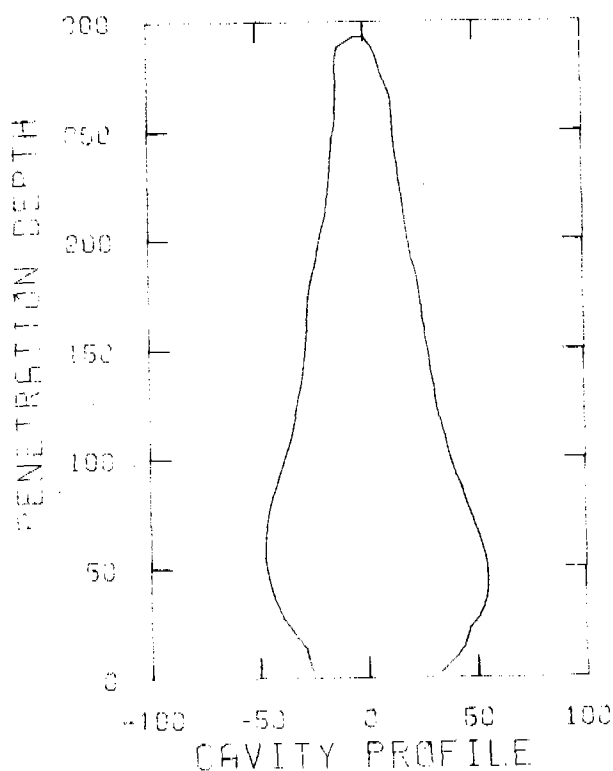
CAVITY MEASUREMENTS

PENETRATION PRESENTED CROSS-SECT
DISTANCE (MM) AREA (MM**2) AREA (MM**2)

PENETRATION CAVITY
DISTANCE (MM) RADIUS(MM)

0 0 0
0 0 0
0 0 0
0 0 0
0 0 0

0 26
4 31
9 34
13 36
18 39
22 41
27 44
32 47
36 48
41 49
45 50
50 50
54 50
59 49
64 49
68 47
73 46
77 45
82 43
87 42
91 40
96 39
100 37
105 36
109 35
114 34
119 32
123 32
128 31
132 30
137 29
141 29
146 28
150 27
155 27
159 26
164 26
169 26
173 25
178 24
182 24
187 22
192 21
196 20
201 19
206 18
210 18
215 17



ROUND NUMBER 17 CONTINUED

I	219	16
I	224	16
I	228	15
I	233	15
I	237	14
I	242	14
I	247	13
I	251	13
I	256	12
I	260	12
I	265	12
I	270	11
I	274	10
I	279	9
I	283	8
I	288	7
I	292	2
I	0	0

ROUND NUMBER - 15

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) -486.87

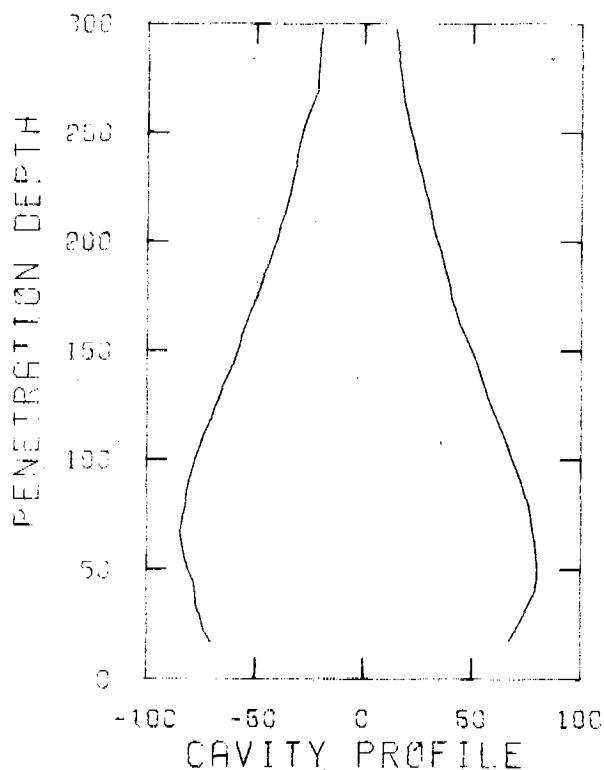
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
16	68
22	71
28	74
33	76
39	78
45	79
50	80
56	81
61	81
67	81
73	80
78	79
84	77
89	76
95	74
101	72
106	70
112	68
117	66
123	63
129	61
134	59
140	57
146	55
151	53
157	51
162	48
168	46
174	44
179	43
185	41
190	39
196	38
201	36
207	34
213	33
218	31
224	30
230	29
235	27
241	26
246	25
252	24
258	22
263	20



ROUND NUMBER 15 CONTINUED

I	269	19
I	275	18
I	280	18
I	286	17
I	291	17
I	297	16
I	302	16
I	308	15
I	314	14
I	319	12
I	325	12
I	331	11
I	336	9
I	342	9
I	348	9
I	353	7
I	357	1
I	0	0

ROUND NUMBER = 14

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W, JHP, .357 MAG PROJECTILE VELOCITY (MPS) -532.95

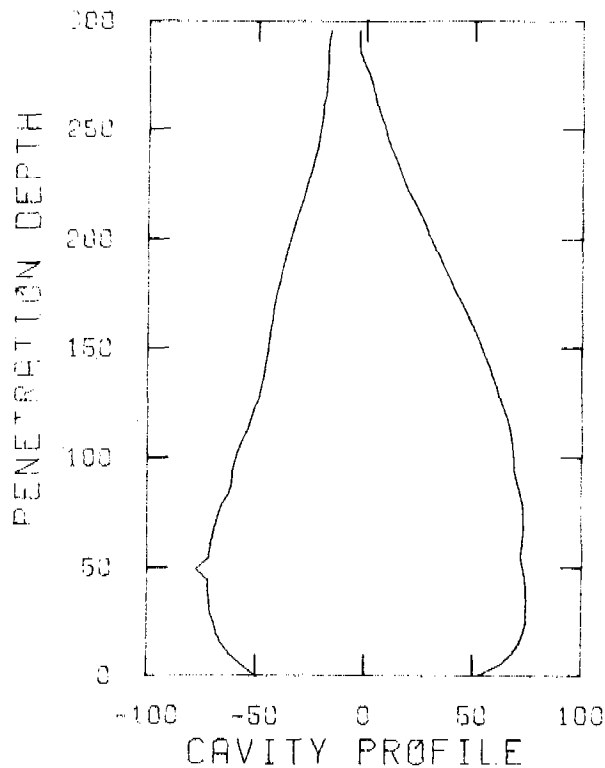
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	51
5	59
9	64
14	68
19	70
24	72
29	73
34	73
39	73
44	73
49	75
54	71
59	71
63	71
68	71
73	70
78	69
83	66
88	65
93	64
98	64
103	63
108	61
113	60
118	58
123	57
128	55
133	53
137	52
142	51
147	49
152	48
157	47
162	45
167	44
172	42
177	40
182	38
187	36
192	35
197	33
201	31
206	29
211	27
216	25
221	23
226	21
231	20



ROUND NUMBER 14 CONTINUED

I	236	18
I	241	16
I	246	15
I	251	14
I	256	13
I	261	12
I	266	11
I	271	10
I	275	9
I	280	8
I	285	7
I	290	6
I	295	6
I	300	6
I	305	4
I	307	1
I	0	0
I	0	0

ROUND NUMBER -- 289

PROJECTILE MASS (GM) -- 9.720

PROJECTILE TYPE --W-W, JSP, .357 MAG PROJECTILE VELOCITY (MPS) --392.89

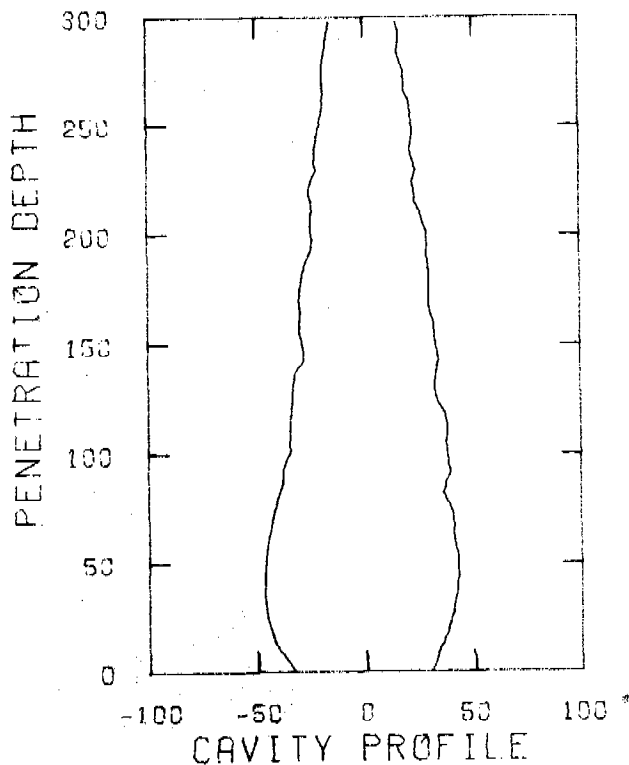
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-1	107	107
29	67	68
69	79	83
107	74	75
147	86	87
228	66	68
240	70	70

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	31
I	4	34
I	9	36
I	13	38
I	18	40
I	22	41
I	27	43
I	32	43
I	36	44
I	41	44
I	45	44
I	50	44
I	54	44
I	59	43
I	64	42
I	68	41
I	73	41
I	77	39
I	82	37
I	87	37
I	91	38
I	96	37
I	100	36
I	105	35
I	110	36
I	114	36
I	119	35
I	123	33
I	128	32
I	133	32
I	137	32
I	142	31
I	146	30
I	151	30
I	155	31
I	160	30
I	164	29
I	169	29
I	174	29
I	178	29
I	183	28
I	187	27
I	192	26
I	196	26
I	201	26
I	206	25
I	210	24
I	215	23



ROUND NUMBER 289 CONTINUED

I	219	24
I	224	23
I	229	22
I	233	22
I	238	21
I	243	21
I	247	21
I	252	20
I	256	20
I	261	19
I	265	18
I	270	18
I	275	18
I	279	17
I	284	16
I	288	16
I	293	16
I	297	15
I	302	13
I	307	12
I	311	11
I	316	11
I	320	11
I	325	11
I	330	11
I		

RJND NUMBER -- 320

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, JSP, .38 SPEC PROJECTILE VELOCITY (MPS) --235.61

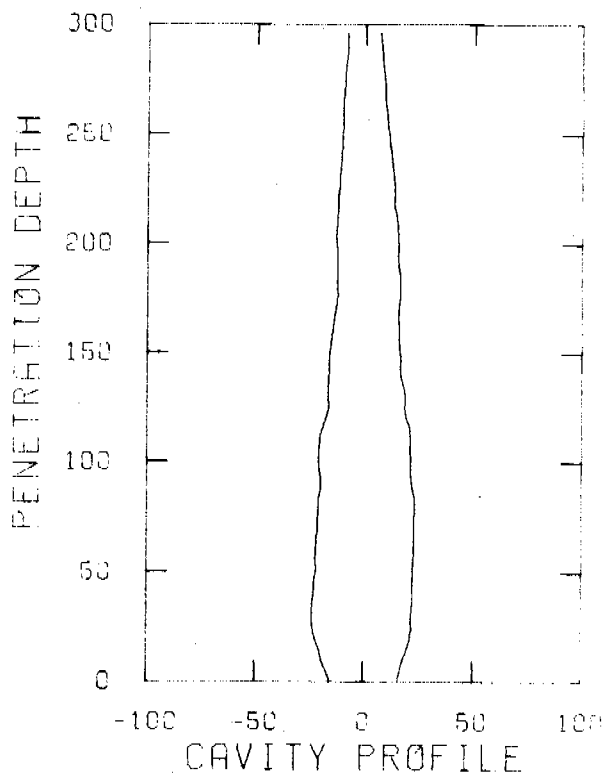
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-11	68	68
7	55	55
34	68	68
60	59	59
90	70	70
153	61	62
163	61	61

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	15
I	4	17
I	9	18
I	13	20
I	18	21
I	23	22
I	27	22
I	32	23
I	37	23
I	41	22
I	46	22
I	50	22
I	55	22
I	60	22
I	64	22
I	69	22
I	74	22
I	78	22
I	83	21
I	88	20
I	92	20
I	97	21
I	101	21
I	106	20
I	111	20
I	115	20
I	120	18
I	125	17
I	129	17
I	134	17
I	138	16
I	143	16
I	148	16
I	152	15
I	157	15
I	162	15
I	166	14
I	171	14
I	176	14
I	180	14
I	185	14
I	189	13
I	194	13
I	199	14
I	203	14
I	208	13
I	212	13
I	217	12



ROUND NUMBER 320 CONTINUED

I	222	13
I	226	12
I	231	12
I	236	11
I	240	11
I	245	10
I	250	10
I	254	10
I	259	9
I	263	9
I	268	9
I	273	9
I	277	8
I	282	8
I	287	7
I	291	7
I	296	7
I	301	6
I	305	6
I	310	5
I	314	5

ROUND NUMBER -- 319

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, JSP, .38 SPEC PROJECTILE VELOCITY (MPS) --300.53

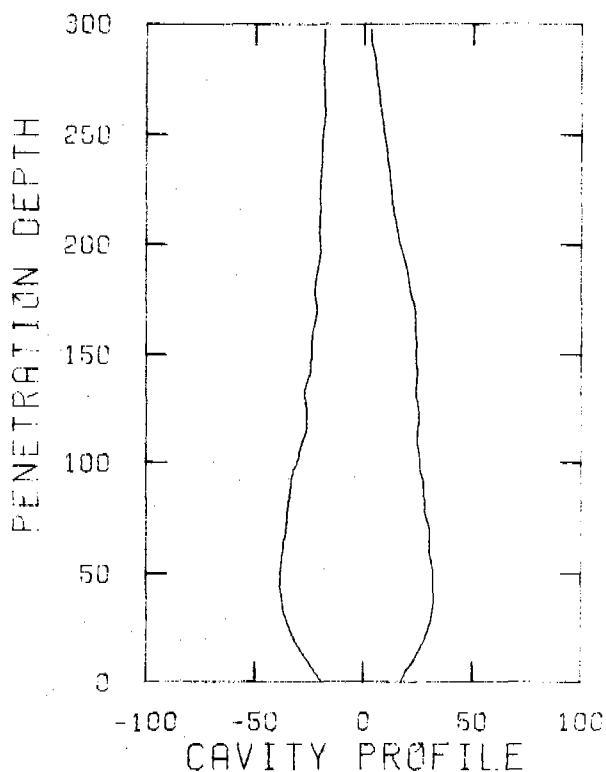
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-10	61	61
14	69	69
45	69	69
78	65	65
112	68	68
181	60	60
191	63	64

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	18
I	4	20
I	9	23
I	13	26
I	18	29
I	22	31
I	27	33
I	32	34
I	36	34
I	41	35
I	45	35
I	50	35
I	54	34
I	59	33
I	64	33
I	68	33
I	73	32
I	77	31
I	82	31
I	87	30
I	91	30
I	96	29
I	100	27
I	105	27
I	109	26
I	114	25
I	119	25
I	123	25
I	128	25
I	132	25
I	137	25
I	141	24
I	146	24
I	150	23
I	155	23
I	160	23
I	164	22
I	169	22
I	173	22
I	178	21
I	182	21
I	187	20
I	192	19
I	196	18
I	201	18
I	205	17
I	210	17
I	215	16



ROUND NUMBER 319 CONTINUED

I	219	16
I	224	16
I	228	15
I	233	15
I	237	14
I	242	14
I	246	14
I	251	13
I	255	13
I	260	12
I	265	12
I	269	12
I	274	12
I	278	11
I	283	11
I	288	11
I	292	10
I	297	10
I	302	9
I	306	9
I	311	8
I	315	8
I		

ROUND NUMBER -- 318

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, JSP, .38 SPEC PROJECTILE VELOCITY (MPS) --348.39

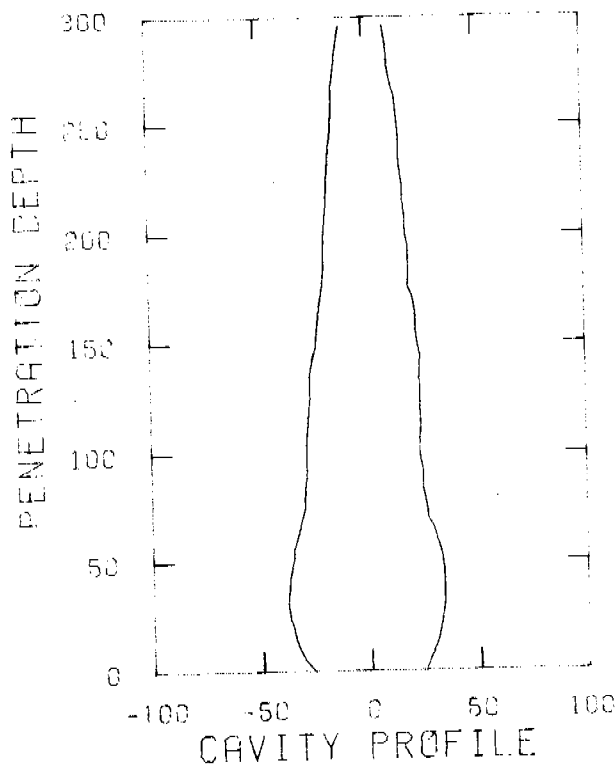
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-8	80	80
19	112	112
54	72	72
92	63	64
130	70	72
210	62	68
222	60	65

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	25
I 5	28
I 9	31
I 14	32
I 19	33
I 23	34
I 28	35
I 32	36
I 37	35
I 42	35
I 46	34
I 51	34
I 55	33
I 60	32
I 65	30
I 69	29
I 74	27
I 78	27
I 83	26
I 88	26
I 92	26
I 97	26
I 102	25
I 106	25
I 111	25
I 116	25
I 120	25
I 125	25
I 129	25
I 134	25
I 138	24
I 143	24
I 148	23
I 152	22
I 157	22
I 162	22
I 166	21
I 171	20
I 175	19
I 180	19
I 185	19
I 189	19
I 194	19
I 199	18
I 203	18
I 208	18
I 213	17
I 217	17



ROUND NUMBER 318 CONTINUED

I	222	17
I	226	16
I	231	16
I	235	16
I	240	16
I	245	15
I	249	15
I	254	14
I	259	14
I	263	14
I	268	13
I	272	12
I	277	12
I	281	11
I	286	11
I	291	10
I	296	9
I	300	9
I	305	8
I	309	7
I	314	7
I	319	7
I		

ROUND NUMBER -- 317

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, JSP, .38 SPEC PROJECTILE VELOCITY (MPS) --390.75

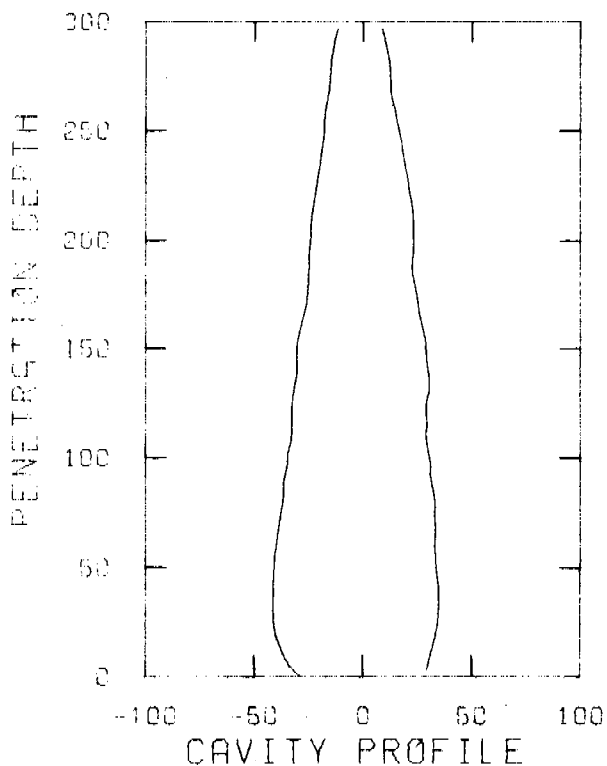
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	114	114
30	115	115
66	67	67
105	61	61
144	83	83
222	68	68
233	61	61

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	28
I	4	31
I	9	33
I	13	35
I	18	36
I	23	37
I	27	38
I	32	38
I	37	38
I	41	38
I	46	37
I	50	37
I	55	36
I	60	36
I	64	36
I	69	35
I	73	35
I	78	35
I	83	34
I	87	33
I	92	33
I	97	32
I	101	32
I	106	31
I	111	30
I	115	30
I	120	30
I	124	30
I	129	31
I	134	30
I	138	30
I	143	29
I	148	29
I	152	29
I	157	28
I	162	27
I	166	26
I	171	25
I	176	24
I	180	24
I	185	23
I	189	23
I	194	23
I	199	23
I	203	23
I	208	23
I	213	22
I	217	22



ROUND NUMBER 317 CONTINUED

I	222	21
I	227	20
I	231	19
I	236	19
I	240	18
I	245	17
I	250	16
I	254	16
I	259	15
I	264	14
I	268	14
I	273	13
I	277	13
I	282	13
I	287	12
I	291	11
I	296	10
I	301	9
I	305	8
I	310	8
I	315	8

ROUND NUMBER - 59

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W, JSP, .357 MAG PROJECTILE VELOCITY (MPS) -488.46

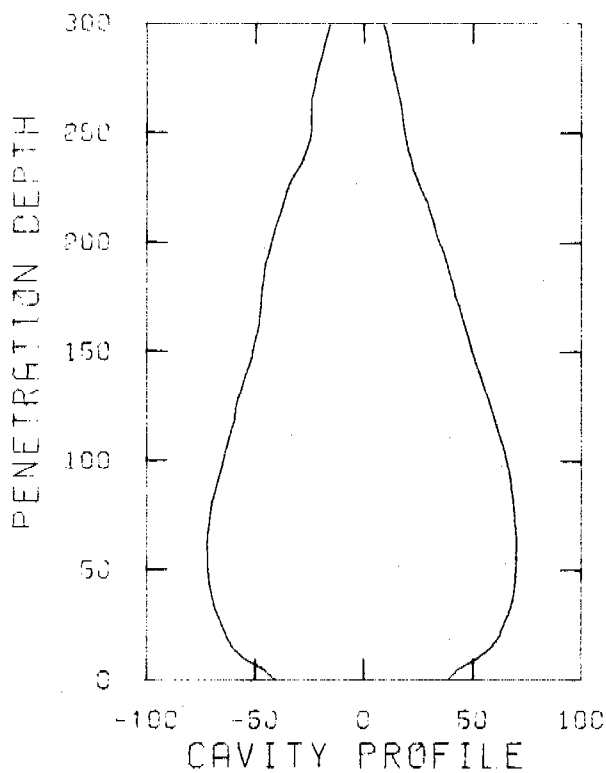
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
19	134	134
56	241	241
98	216	218
133	218	219
167	218	219

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	39
I	4	44
I	9	53
I	14	59
I	19	62
I	23	64
I	28	66
I	33	68
I	38	69
I	42	70
I	47	70
I	52	71
I	56	71
I	61	71
I	66	71
I	71	70
I	75	69
I	80	69
I	85	68
I	90	67
I	94	66
I	99	65
I	104	64
I	109	62
I	113	61
I	118	59
I	123	58
I	128	57
I	132	55
I	137	54
I	142	52
I	147	50
I	151	49
I	156	48
I	161	47
I	166	46
I	170	45
I	175	44
I	180	43
I	184	42
I	189	41
I	194	40
I	199	38
I	204	37
I	208	35
I	213	34
I	218	32
I	223	30



ROUND NUMBER 59 CONTINUED

I	227	28
I	232	26
I	237	24
I	242	23
I	246	21
I	251	21
I	256	20
I	261	20
I	265	19
I	270	18
I	275	17
I	280	16
I	284	15
I	289	14
I	294	13
I	299	12
I	304	10
I	308	9
I	313	9
I	318	8
I	322	7

ROUND NUMBER - 54

PROJECTILE MAS (GM) - 9.396

PROJECTILE TYPE -W-W, L, .38 S+W

PROJECTILE VELOCITY (MPS) -238.00

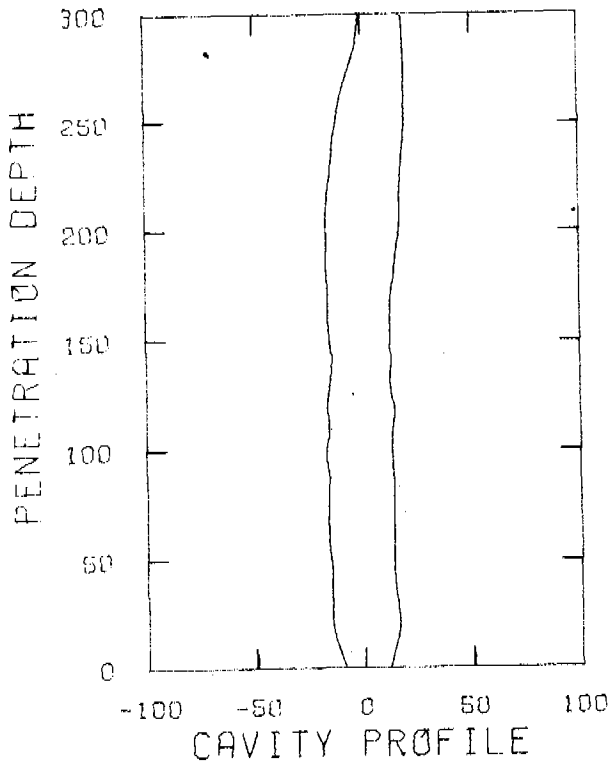
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
9	51	51
32	63	63
59	53	53
88	63	65
119	60	61

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	10
4	11
9	13
13	14
18	15
23	15
27	15
32	15
36	14
41	14
46	14
50	14
55	14
59	15
64	15
68	15
73	15
78	15
82	14
87	14
92	14
96	15
101	14
105	14
110	14
115	15
119	15
124	14
128	13
133	13
138	13
142	13
147	13
152	14
156	14
161	14
165	14
170	14
174	14
179	15
184	16
188	16
193	16
197	16
202	17
207	17
211	16
216	16



ROUND NUMBER 54 CONTINUED

1	220	16
1	225	16
1	230	16
1	234	16
1	239	16
1	244	16
1	248	15
1	253	15
1	257	15
1	262	14
1	267	14
1	271	13
1	276	12
1	281	11
1	285	11
1	290	10
1	294	10
1	299	9
1	303	8
1	308	8
1	0	0

ROUND NUMBER - 66

PROJECTILE MASS (GM) - 9.720

PROJECTILE TYPE - W-W, L, .38 LC

PROJECTILE VELOCITY (MPS) - 247.80

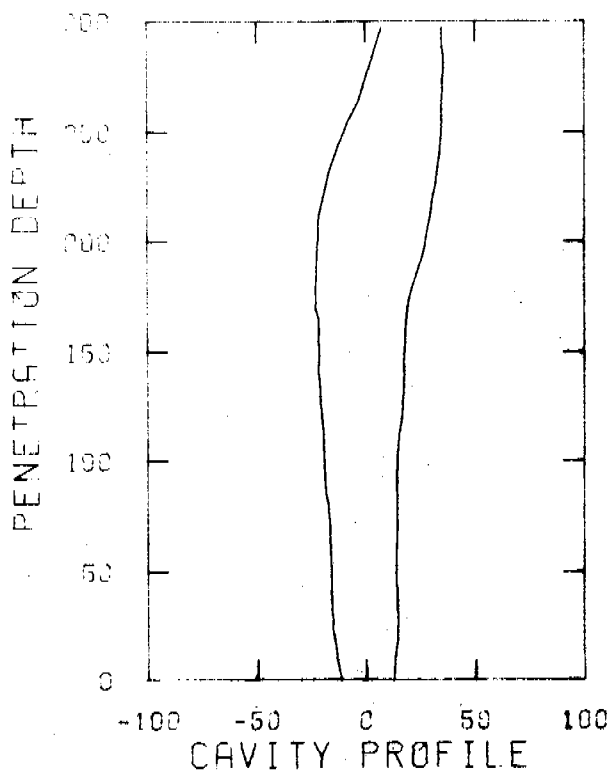
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
10	54	55
34	59	59
62	52	53
91	43	44
123	41	41

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	11
4	12
9	13
14	13
18	14
23	14
28	14
33	15
37	15
42	15
47	14
51	14
56	14
61	15
65	15
70	15
75	15
80	15
84	16
89	16
94	16
99	16
103	16
108	17
113	17
118	18
122	18
127	19
132	19
136	19
141	19
146	19
151	19
155	19
160	19
164	20
169	21
174	21
179	22
183	22
188	23
193	24
198	24
202	24
207	25
212	25
217	25
221	25



ROUND NUMBER 66 CONTINUED

I	226	25
I	231	24
I	235	24
I	240	23
I	245	23
I	250	22
I	254	21
I	259	20
I	264	19
I	268	18
I	273	17
I	278	17
I	283	16
I	287	15
I	292	14
I	297	13
I	301	12
I	306	10
I	311	9
I	315	9
I	320	8

ROUND NUMBER - 68

PROJECTILE MASS (GM) - 9.720

PROJECTILE TYPE - M-N, L, .38 SPEC PROJECTILE VELOCITY (MPS) - 345.97

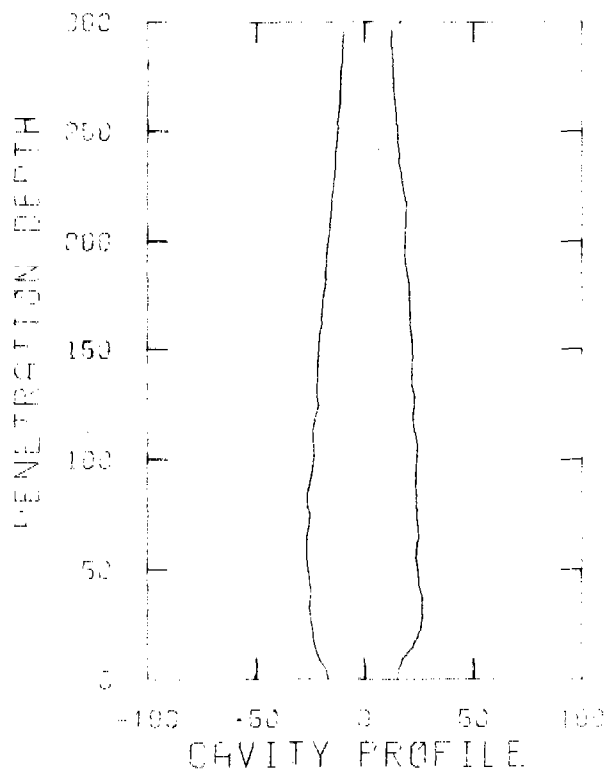
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
15	59	59
45	60	60
84	69	69
122	55	55
162	63	63

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	15
4	16
9	19
13	22
18	23
23	24
27	25
32	26
36	25
41	25
46	25
50	25
55	25
60	25
64	25
69	25
73	24
78	25
83	25
87	24
92	24
96	23
101	23
106	23
110	23
115	22
120	22
124	22
129	22
133	21
138	21
143	21
147	21
152	21
157	20
161	20
166	20
171	19
175	19
180	19
184	18
189	18
194	17
198	17
203	17
207	17
212	17
217	17



ROUND NUMBER 68 CONTINUED

1	221	16
1	226	15
1	230	15
1	235	14
1	240	14
1	244	13
1	249	13
1	254	13
1	258	12
1	263	12
1	268	12
1	272	11
1	277	11
1	281	11
1	286	11
1	291	10
1	295	10
1	300	10
1	304	10
1	309	10
1	314	9
1	318	9
1	0	0
1	0	0

ROUND NUMBER - 52

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W, L, .357 MAG

PROJECTILE VELOCITY (MPS) -115.45

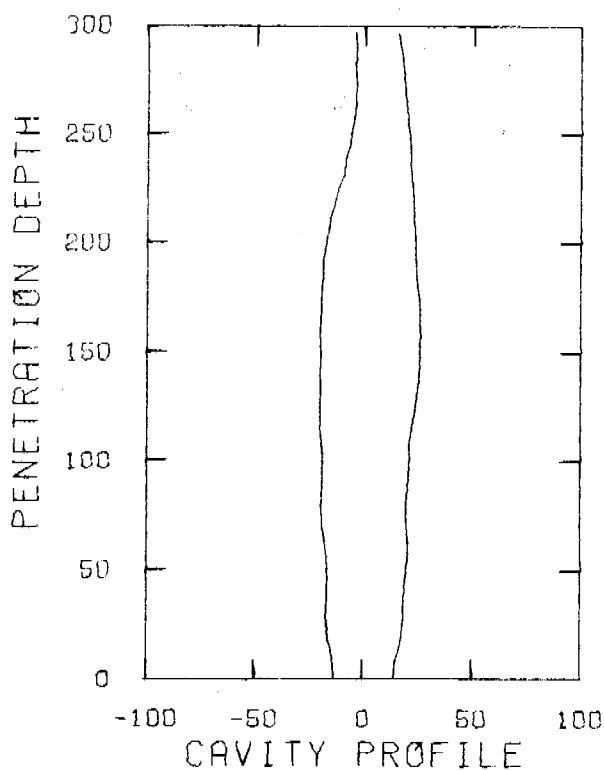
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
6	52	55
28	57	60
55	57	60
82	51	60
110	34	65

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	13
4	14
9	14
14	16
18	17
23	17
28	18
32	18
37	17
42	18
47	18
51	18
56	18
61	19
65	19
70	19
75	19
80	19
84	19
89	20
94	20
98	20
103	20
108	20
112	21
117	21
122	22
127	22
131	22
136	22
141	23
145	23
150	23
155	23
159	23
164	23
169	23
174	22
178	22
183	21
188	21
192	21
197	20
202	20
206	19
211	19
216	18
220	17



ROUND NUMBER 52 CONTINUED

I	225	16
I	230	15
I	235	14
I	239	14
I	244	13
I	249	13
I	253	12
I	258	11
I	263	11
I	268	11
I	272	10
I	277	10
I	282	10
I	286	10
I	291	9
I	296	9
I	300	9
I	305	9
I	310	8
I	315	7
I	317	7

ROUND NUMBER - 50

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W, L. .357 MAG

PROJECTILE VELOCITY (MPS) -234.63

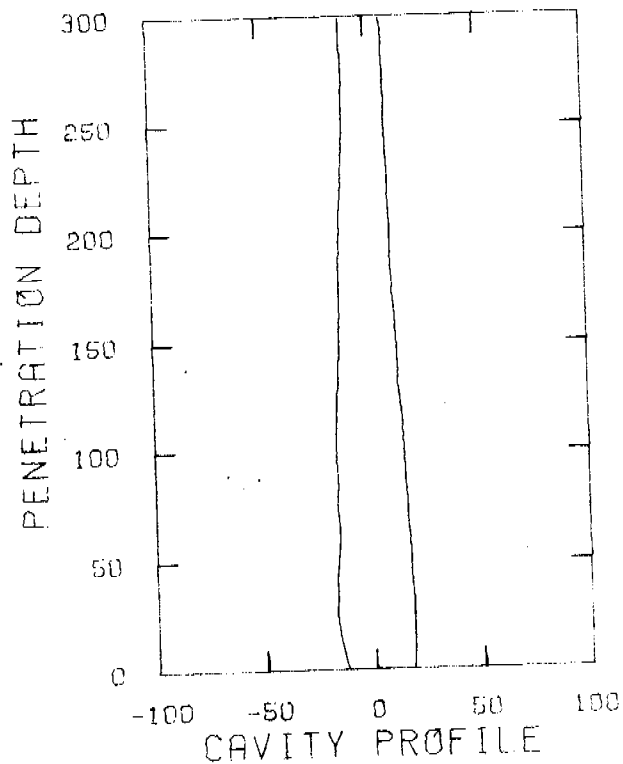
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
8	57	57
29	61	61
57	56	56
83	63	63
114	63	63

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	15
4	15
9	16
14	17
18	17
23	17
27	17
32	17
37	17
42	17
46	16
51	16
56	16
60	16
65	15
70	15
74	16
79	16
84	15
88	15
93	15
98	15
102	15
107	15
112	15
116	15
121	14
126	14
130	13
135	13
140	13
145	13
149	13
154	12
158	12
163	12
168	12
172	12
177	12
182	12
186	11
191	11
196	11
200	11
205	11
210	11
214	10
219	10



ROUND NUMBER 50 CONTINUED

I	224	10
I	228	10
I	233	10
I	238	9
I	242	9
I	247	9
I	252	9
I	256	9
I	261	9
I	266	9
I	270	9
I	275	9
I	280	9
I	285	9
I	289	9
I	294	9
I	298	9
I	303	8
I	308	8
I	313	8
I	317	8
I	322	8
I	327	8
I	0	0

ROUND NUMBER - 67

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W, L, .38 SPEC

PROJECTILE VELOCITY (MPS) -285.93

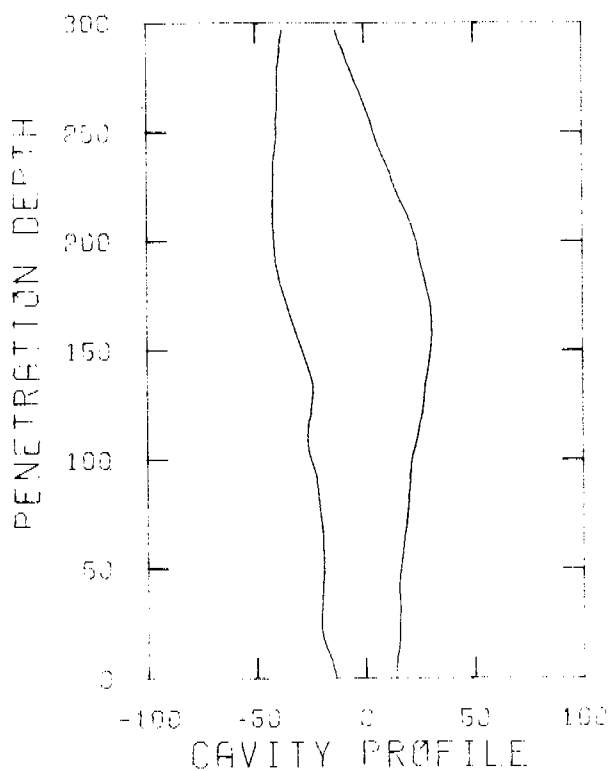
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	60	60
38	47	48
72	44	45
104	58	58
141	56	56

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	13
I	4	14
I	9	15
I	13	16
I	18	17
I	23	18
I	27	18
I	32	18
I	37	17
I	41	17
I	46	17
I	51	17
I	55	18
I	60	18
I	64	18
I	69	19
I	74	20
I	78	20
I	83	21
I	88	21
I	92	21
I	97	22
I	102	23
I	106	24
I	111	25
I	116	25
I	120	25
I	125	25
I	129	25
I	134	26
I	139	27
I	143	28
I	148	29
I	153	30
I	157	31
I	162	32
I	166	32
I	171	33
I	176	33
I	180	33
I	185	33
I	190	33
I	194	33
I	199	32
I	204	32
I	208	31
I	213	30
I	218	29



ROUND NUMBER 67 CONTINUED

I	222	28
I	227	27
I	231	26
I	236	25
I	241	24
I	245	23
I	250	22
I	255	21
I	259	20
I	264	19
I	268	18
I	273	17
I	278	16
I	282	15
I	287	14
I	292	13
I	296	12
I	301	11
I	306	10
I	310	9
I	315	8
I	318	8
I	0	0
I	0	0

ROUND NUMBER - 53

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W, L, .357 MAG

PROJECTILE VELOCITY (MPS) -303.92

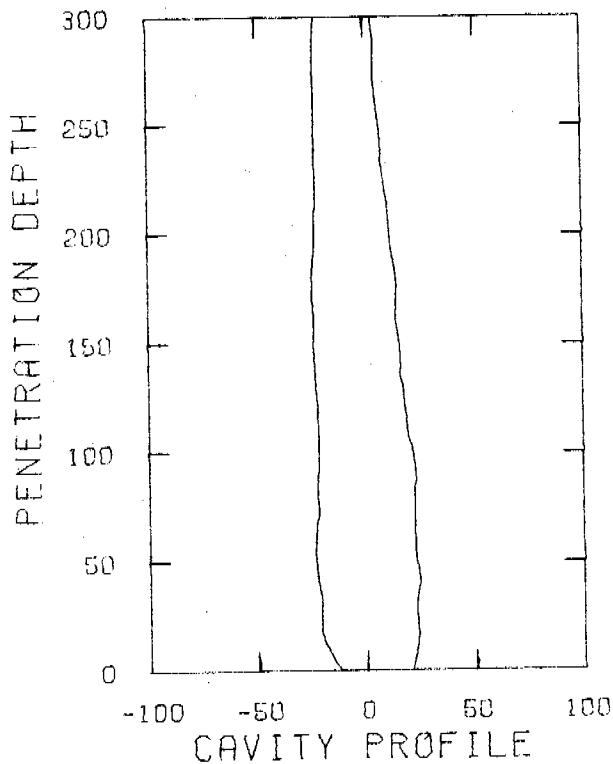
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
16	66	69
43	63	63
78	69	69
111	63	63
148	67	68

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	16
I	4	18
I	9	20
I	13	21
I	18	22
I	23	22
I	27	22
I	32	22
I	37	22
I	42	23
I	46	23
I	51	23
I	55	23
I	60	22
I	65	22
I	70	22
I	74	22
I	79	22
I	84	22
I	88	22
I	93	22
I	98	21
I	102	21
I	107	20
I	112	20
I	116	20
I	121	20
I	126	20
I	130	19
I	135	19
I	140	19
I	144	19
I	149	19
I	154	19
I	158	19
I	163	18
I	168	19
I	172	19
I	177	19
I	182	19
I	187	18
I	191	17
I	196	17
I	200	17
I	205	16
I	210	16
I	214	16
I	219	16



ROUND NUMBER 53 CONTINUED

I	224	15
I	228	15
I	233	15
I	238	15
I	243	15
I	247	15
I	252	14
I	257	14
I	261	14
I	266	14
I	270	13
I	275	13
I	280	13
I	285	13
I	289	13
I	294	13
I	298	12
I	303	12
I	308	12
I	313	11
I	317	11
I	322	11
I	0	0
I	0	0

ROUND NUMBER - 51

PROJECTILE MSS (GK)-10.238

PROJECTILE TYPE -W-W, L, .357 MAG

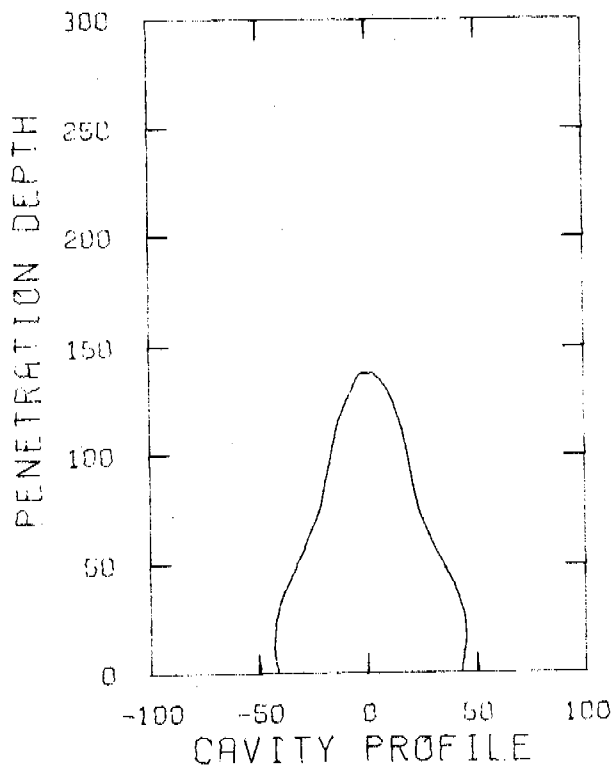
PROJECTILE VELOCITY (MPS) -331.24

PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
8	0	0	0	41
29	0	0	4	43
57	0	0	9	43
83	0	0	14	44
114	0	0	18	44
			23	43
			27	42
			32	41
			37	39
			41	37
			46	35
			51	33
			55	30
			60	28
			65	26
			69	24
			74	22
			79	21
			83	20
			88	19
			92	18
			97	17
			102	16
			106	16
			111	14
			116	13
			120	11
			125	10
			129	7
			132	6
			134	5
			136	3
			137	2



ROUND NUMBER - 49

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W. L. .357 MAG

PROJECTILE VELOCITY (MPS) -342.86

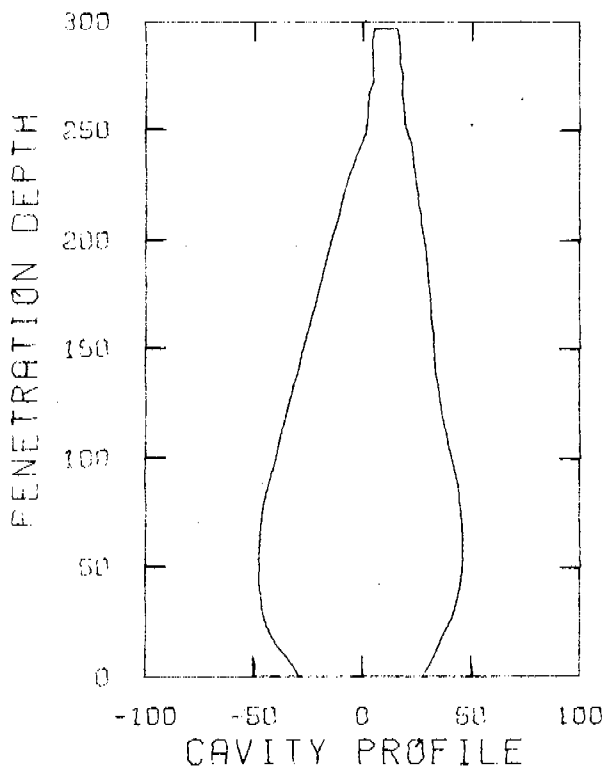
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
64	177	177
94	173	174
127	207	207
155	148	149
183	208	210

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	28
I	4	31
I	9	34
I	13	37
I	18	39
I	23	42
I	27	43
I	32	44
I	37	45
I	41	46
I	46	46
I	50	47
I	55	47
I	59	47
I	64	46
I	69	46
I	73	45
I	78	45
I	82	44
I	87	43
I	92	42
I	96	41
I	101	39
I	105	38
I	110	38
I	115	36
I	119	35
I	124	34
I	128	33
I	133	33
I	138	31
I	142	30
I	147	30
I	152	29
I	156	28
I	161	27
I	165	27
I	170	26
I	174	25
I	179	24
I	184	23
I	188	23
I	193	22
I	197	21
I	202	20
I	207	19
I	211	18
I	216	17



ROUND NUMBER 49 CONTINUED

1	221	16
1	225	15
1	230	14
1	234	13
1	239	12
1	244	11
1	248	9
1	253	8
1	257	8
1	262	7
1	267	7
1	271	6
1	276	6
1	280	5
1	285	5
1	290	6
1	294	5
1	296	4

ROUND NUMBER - 46

PROJECTILE MASS (GM)-12.960

PROJECTILE TYPE -W-W, 1, .38 SPEC

PROJECTILE VELOCITY (MPS) -224.57

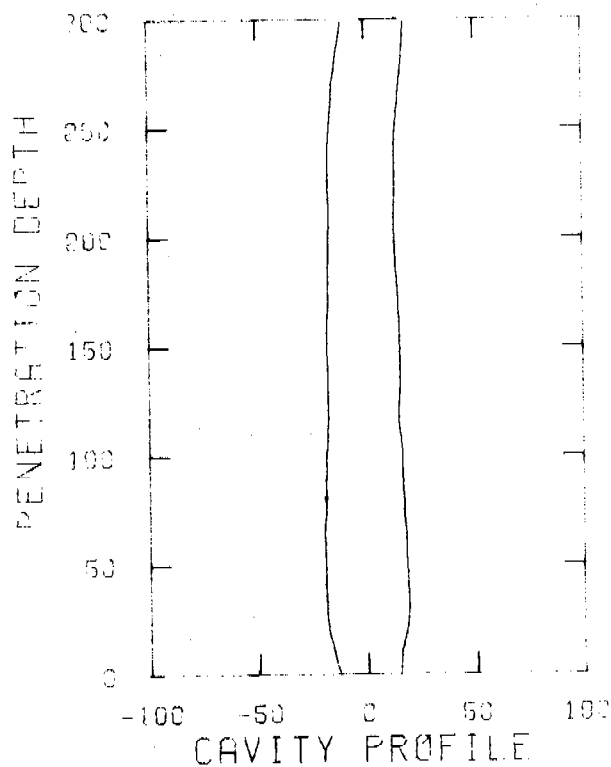
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
5	60	61
26	68	68
52	64	64
77	64	65
107	67	68

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	13
I	4	14
I	9	15
I	14	16
I	18	17
I	23	18
I	27	18
I	32	19
I	37	19
I	42	19
I	46	18
I	51	18
I	56	18
I	60	18
I	65	18
I	70	18
I	74	18
I	79	18
I	83	17
I	88	17
I	93	17
I	98	17
I	102	17
I	107	16
I	111	16
I	116	16
I	121	16
I	126	16
I	130	16
I	135	16
I	140	16
I	144	16
I	149	16
I	154	16
I	158	16
I	163	16
I	168	16
I	172	16
I	177	16
I	182	15
I	186	15
I	191	15
I	196	15
I	200	15
I	205	14
I	210	14
I	214	15
I	219	15



ROUND NUMBER 46 CONTINUED

I	224	15
I	228	15
I	233	15
I	238	15
I	242	15
I	247	15
I	252	15
I	256	15
I	261	15
I	266	15
I	270	15
I	275	15
I	280	15
I	284	15
I	289	14
I	294	14
I	298	14
I	303	13
I	308	13
I	313	12
I	317	12

ROUND NUMBER -- 326

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, LHP, .38 SPEC PROJECTILE VELOCITY (MPS) --170.38

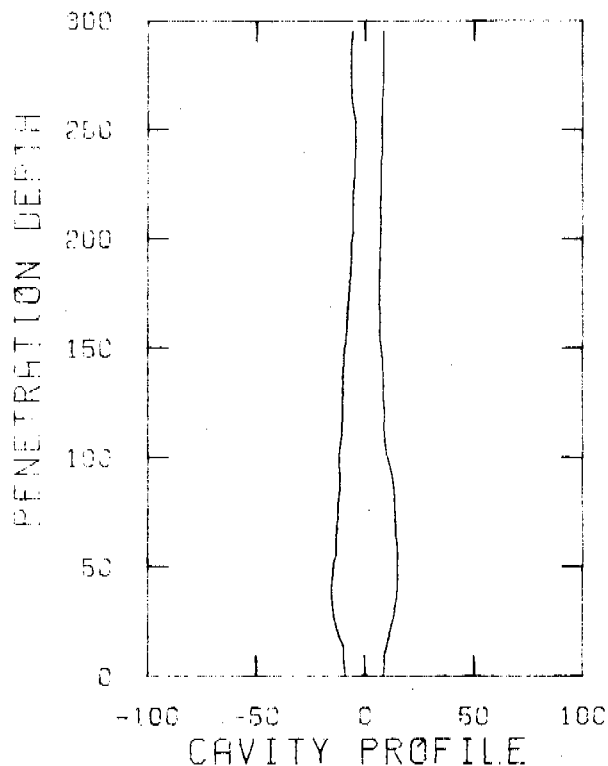
PROJECTILE DIAMETER (CM) -- 9.368

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-15	67	67
*	*	*
16	66	66
36	72	72
57	70	70
103	69	69
110	71	72

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	8
I 4	9
I 9	9
I 13	10
I 18	11
I 23	12
I 27	13
I 32	14
I 36	15
I 41	15
I 46	15
I 50	14
I 55	14
I 59	14
I 64	13
I 69	13
I 73	13
I 78	12
I 82	12
I 87	12
I 92	11
I 96	11
I 101	10
I 106	10
I 110	9
I 115	9
I 120	9
I 124	9
I 129	9
I 133	9
I 138	9
I 142	8
I 147	8
I 152	7
I 156	7
I 161	7
I 165	7
I 170	6
I 175	6
I 179	6
I 184	6
I 189	6
I 193	6
I 198	6
I 203	6
I 207	6
I 212	6
I 216	6



ROUND NUMBER 326 CONTINUED

I	221	6
I	226	6
I	230	6
I	235	6
I	239	6
I	244	6
I	249	6
I	253	6
I	258	6
I	263	6
I	267	7
I	272	7
I	276	7
I	281	7
I	286	7
I	290	7
I	295	7
I	300	6
I	304	6
I	309	5
I	314	5
I	318	5
I		

ROUND NUMBER = 40

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W,LHP, .38 SPEC

PROJECTILE VELOCITY (MPS) -220.58

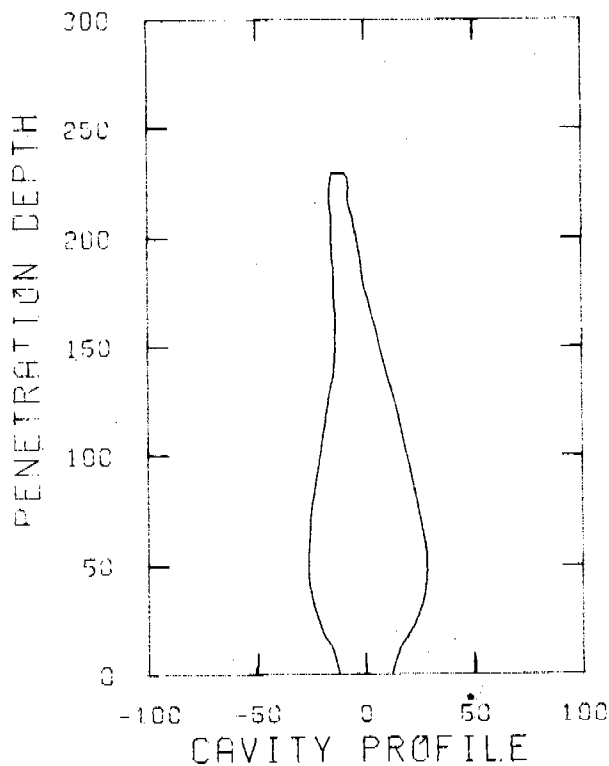
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
1	60	60
18	107	107
41	112	112
63	120	120
84	124	124

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	11
4	13
9	14
13	16
18	19
22	21
27	23
31	25
36	26
40	26
45	27
49	27
54	27
59	26
63	26
68	25
72	24
77	24
81	23
86	22
90	21
95	20
99	19
104	18
109	18
113	17
118	16
122	15
127	14
131	13
136	12
141	11
145	10
150	10
154	9
159	9
163	8
168	8
172	7
177	6
181	6
186	6
190	6
195	6
199	5
204	5
209	4
213	4



ROUND NUMBER 40 CONTINUED

1	218	4
1	222	4
1	227	3
1	229	2
1	0	0
1	0	0

ROUND NUMBER -- 325

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, LHP, .38 SPEC PROJECTILE VELOCITY (MPS) --235.61

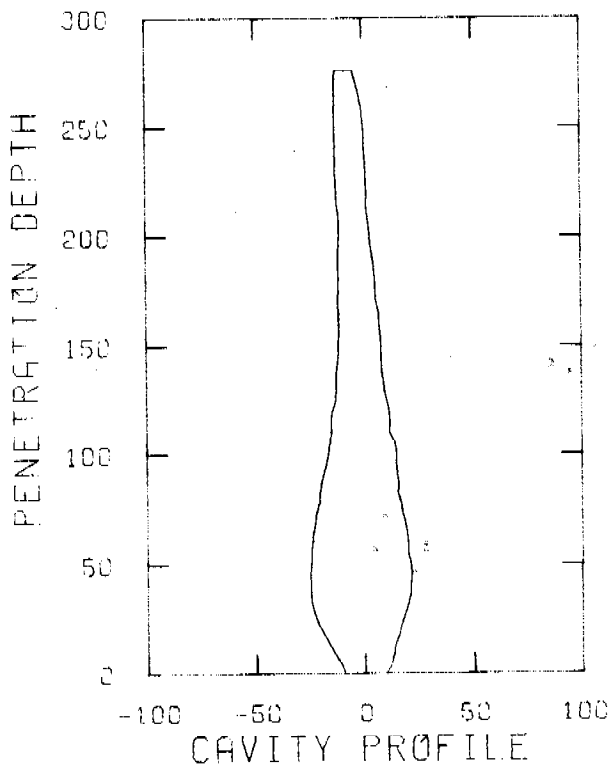
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-12	77	77
3	94	94
23	87	87
44	101	101
66	108	108
107	89	92
114	77	78

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	I CAVITY RADIUS(MM)
I 0	9
I 4	11
I 9	13
I 14	15
I 18	17
I 23	19
I 27	21
I 32	22
I 36	22
I 41	23
I 45	23
I 50	22
I 55	22
I 59	22
I 64	21
I 69	20
I 73	19
I 78	18
I 82	17
I 87	17
I 91	16
I 96	15
I 100	15
I 105	14
I 110	13
I 114	13
I 119	12
I 124	11
I 128	11
I 133	10
I 137	10
I 142	9
I 147	9
I 151	9
I 156	9
I 160	9
I 165	9
I 169	8
I 174	8
I 179	8
I 183	8
I 188	8
I 193	7
I 197	7
I 202	6
I 206	6
I 211	6
I 215	6



ROUND NUMBER 325 CONTINUED

I	220	6
I	225	6
I	229	7
I	234	6
I	238	6
I	243	6
I	248	6
I	252	6
I	257	6
I	261	5
I	266	5
I	271	4
I	275	3
I		

ROUND NUMBER - 44

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W,LHP,.38 SPEC

PROJECTILE VELOCITY (MPS) -252.71

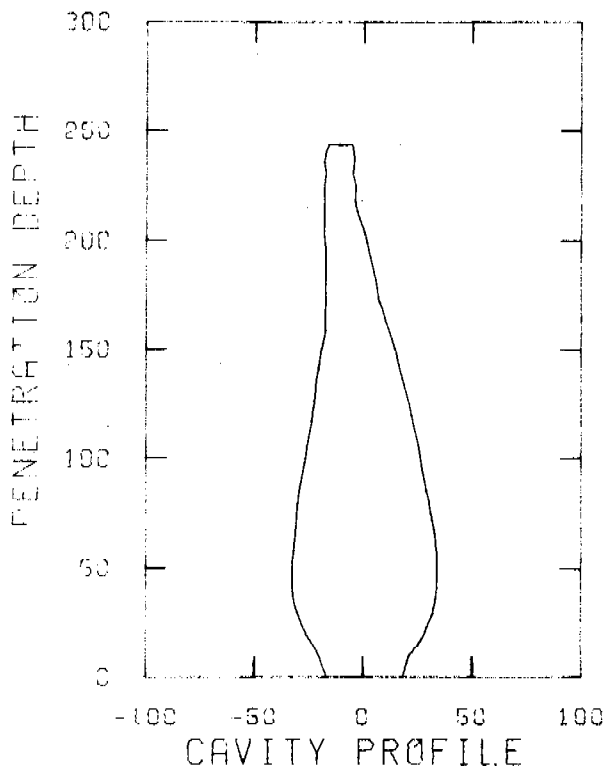
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
1	70	70
21	142	143
46	158	158
70	154	154
94	153	154

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	17
I	4	19
I	9	20
I	14	23
I	19	27
I	23	29
I	28	31
I	33	32
I	38	33
I	43	33
I	48	33
I	52	33
I	57	33
I	62	32
I	67	32
I	72	31
I	76	30
I	81	29
I	86	29
I	91	28
I	96	27
I	100	26
I	105	25
I	110	24
I	115	23
I	120	22
I	124	21
I	129	20
I	134	20
I	139	19
I	144	17
I	148	17
I	153	15
I	158	14
I	163	13
I	168	13
I	172	12
I	177	11
I	182	11
I	187	10
I	191	10
I	196	9
I	201	9
I	206	8
I	211	7
I	216	6
I	220	6
I	225	6



ROUND NUMBER 44 CONTINUED

1	230	5
1	235	6
1	240	6
1	243	5
1	0	0
1	0	0

ROUND NUMBER -- 324

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, LHP, .38 SPEC PROJECTILE VELOCITY (MPS) --252.98

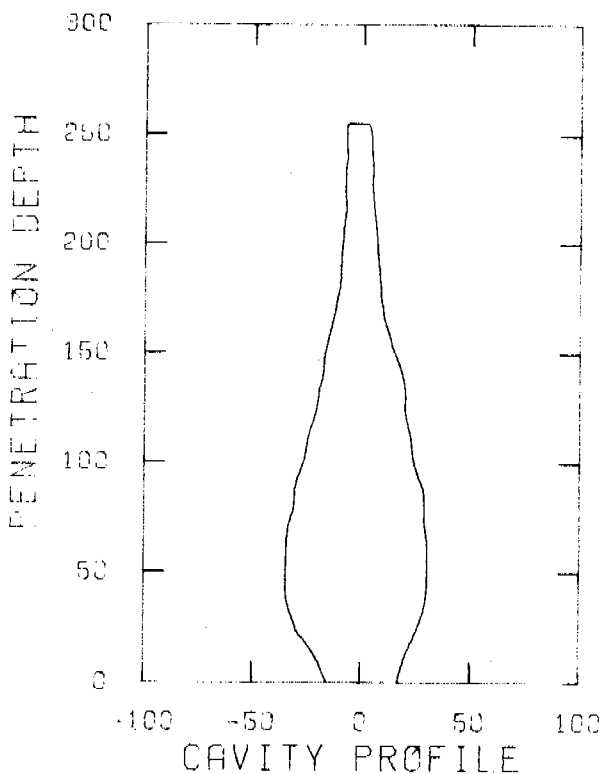
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-11	68	68
6	159	159
30	154	154
54	148	148
79	151	151
124	159	162
131	152	152

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	16
I 4	17
I 9	19
I 13	21
I 18	24
I 23	27
I 27	29
I 32	30
I 36	31
I 41	32
I 46	32
I 50	32
I 55	32
I 60	32
I 64	32
I 69	31
I 73	30
I 78	29
I 83	29
I 87	29
I 92	27
I 97	26
I 101	24
I 106	24
I 110	23
I 115	22
I 120	20
I 124	20
I 129	19
I 133	19
I 138	18
I 143	17
I 147	16
I 152	15
I 156	14
I 161	12
I 166	11
I 170	10
I 175	9
I 179	9
I 184	8
I 189	8
I 193	8
I 198	7
I 202	7
I 207	7
I 212	6
I 216	6



ROUND NUMBER 324 CONTINUED

I	221	6
I	225	6
I	230	5
I	235	6
I	239	5
I	244	5
I	249	5
I	253	5
I	254	4

ROUND NUMBER -- 323

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, LHP, .38 SPEC PROJECTILE VELOCITY (MPS) --290.47

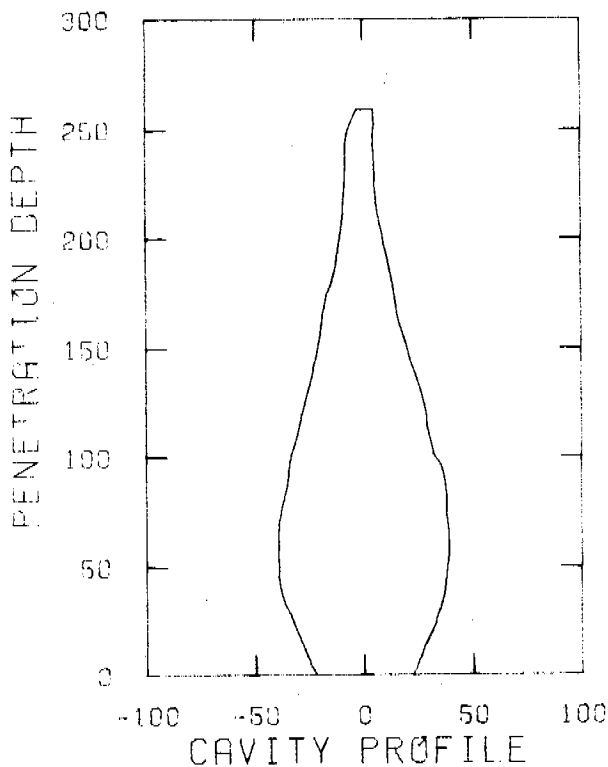
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-10	90	90
10	207	207
37	180	180
63	178	179
89	169	173
136	180	180
143	188	188

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	22
I	4	24
I	9	26
I	13	28
I	18	30
I	23	32
I	27	34
I	32	35
I	36	37
I	41	38
I	46	38
I	50	38
I	55	39
I	59	39
I	64	39
I	68	38
I	73	38
I	78	37
I	82	37
I	87	36
I	91	35
I	96	34
I	101	32
I	105	31
I	110	30
I	114	29
I	119	28
I	123	27
I	128	26
I	133	24
I	137	23
I	142	22
I	146	21
I	151	20
I	156	18
I	160	17
I	165	17
I	169	16
I	174	15
I	178	14
I	183	13
I	188	12
I	192	11
I	197	10
I	202	9
I	206	8
I	211	7
I	215	7



ROUND NUMBER 323 CONTINUED

I	220	7
I	224	6
I	229	6
I	233	6
I	238	6
I	243	6
I	247	5
I	252	5
I	257	4
I	259	3
I		

ROUND NUMBER - 45

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W,LHP,.38 SPEC

PROJECTILE VELOCITY (MPS) -318.52

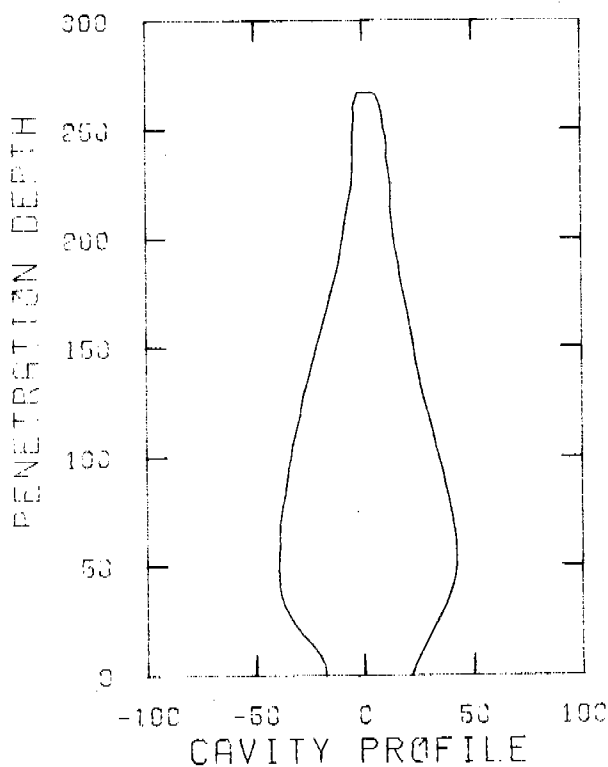
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
4	82	82
27	167	168
57	169	169
84	166	170
110	181	182

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	19
4	20
9	23
13	25
18	29
22	32
27	34
32	37
36	38
41	39
45	40
50	40
54	40
59	40
64	40
68	39
73	39
77	38
82	37
86	36
91	35
96	34
100	33
105	32
109	31
114	30
119	29
123	28
128	27
132	26
137	25
141	23
146	22
151	22
155	20
160	19
164	18
169	17
174	16
178	15
182	14
187	13
192	12
196	12
201	11
206	10
210	10
215	9



ROUND NUMBER 45 CONTINUED

I	219	8
I	224	8
I	228	8
I	233	7
I	238	7
I	242	7
I	247	7
I	251	6
I	256	6
I	260	5
I	265	4
I	266	2

ROUND NUMBER - 39

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W,LHP,,38 SPEC

PROJECTILE VELOCITY (MPS) -350.71

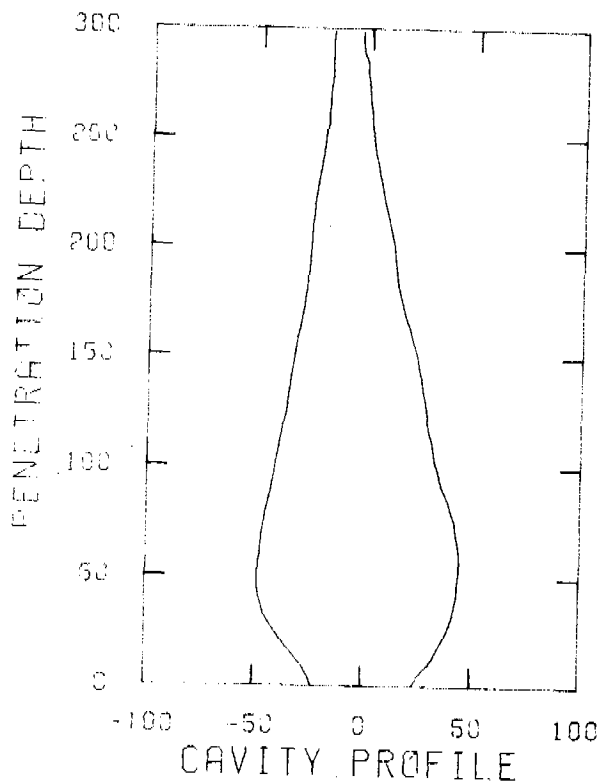
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
6	120	121
31	211	211
64	189	189
94	207	207
123	214	214

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	23
4	25
9	28
14	32
18	35
23	38
28	41
32	43
37	44
42	46
46	46
51	46
56	46
60	46
65	45
70	44
74	44
79	42
84	41
88	39
93	38
98	37
102	36
107	35
111	34
116	33
121	32
126	32
130	31
135	30
140	30
144	29
149	28
154	27
158	26
163	25
168	23
172	22
177	21
182	20
186	20
191	19
196	19
200	19
205	18
210	17
214	16
219	15



ROUND NUMBER 39 CONTINUED

I	224	15
I	228	14
I	233	13
I	238	12
I	242	11
I	247	11
I	252	10
I	257	9
I	261	9
I	266	9
I	270	8
I	275	8
I	280	7
I	284	7
I	289	6
I	294	6
I	298	6
I	304	5

ROUND NUMBER -- 322

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --M-W, LHP, .38 SPEC PROJECTILE VELOCITY (MPS) --356.92

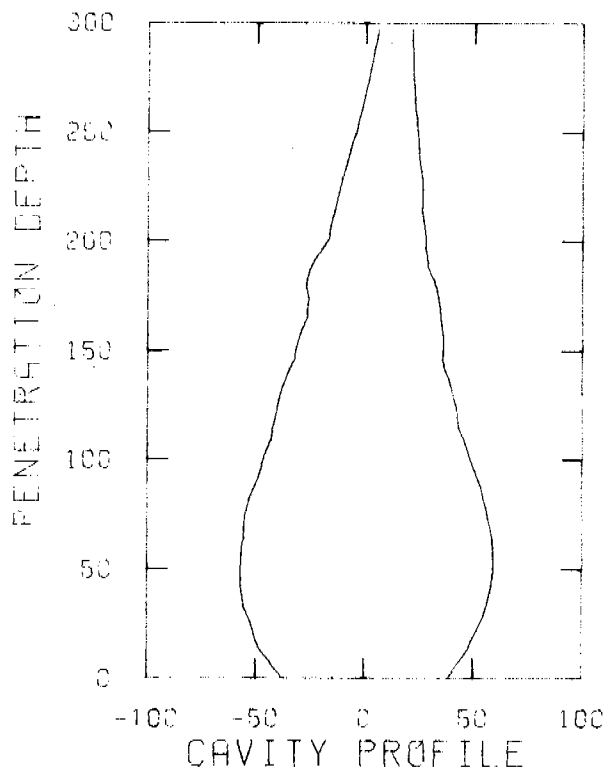
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-5	137	137
19	226	226
51	199	199
81	207	207
111	199	200
165	224	225
173	198	198

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	38
I	4	41
I	9	44
I	13	47
I	18	50
I	23	51
I	27	53
I	32	55
I	36	56
I	41	57
I	45	58
I	50	58
I	54	58
I	59	57
I	63	57
I	68	56
I	73	55
I	77	54
I	82	53
I	86	52
I	91	50
I	95	48
I	100	47
I	105	45
I	109	43
I	114	42
I	118	41
I	123	41
I	127	39
I	132	38
I	137	37
I	141	35
I	146	33
I	150	33
I	155	33
I	159	32
I	164	30
I	169	30
I	173	29
I	178	29
I	182	28
I	187	27
I	191	25
I	196	23
I	201	22
I	205	21
I	210	20
I	214	19



ROUND NUMBER 322 CONTINUED

I	219	19
I	223	19
I	228	18
I	233	17
I	237	16
I	242	15
I	247	14
I	251	13
I	256	13
I	260	12
I	265	11
I	269	10
I	274	10
I	278	9
I	283	9
I	288	8
I	292	7
I	297	7
I	301	6
I	306	6
I	310	6
I	315	6
I	319	5
I		

ROUND NUMBER -- 292

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, LHP, .357 MAG PROJECTILE VELOCITY (MPS) --359.36

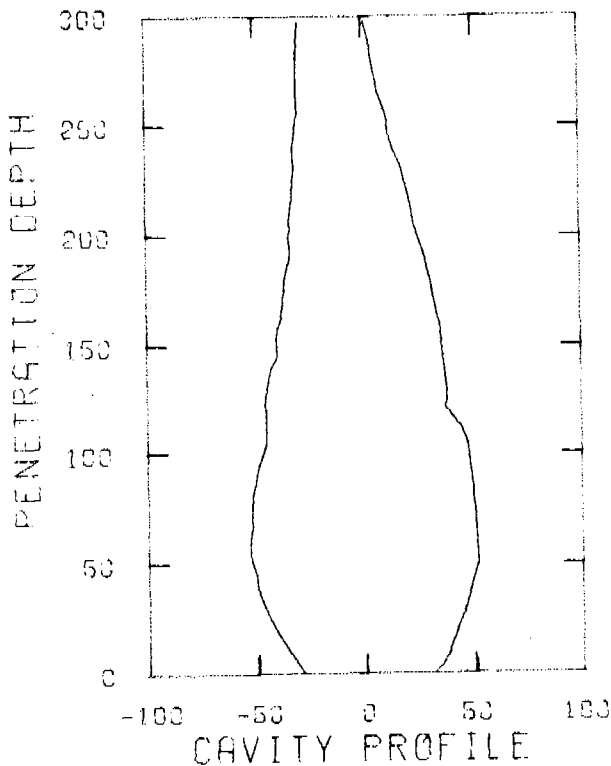
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-4	78	79
23	89	89
59	74	76
92	64	71
147	23	72
185	25	82
194	25	80

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	29
I	4	33
I	9	36
I	13	38
I	18	40
I	22	43
I	27	45
I	31	47
I	36	48
I	40	49
I	45	50
I	49	52
I	54	52
I	58	52
I	63	52
I	67	51
I	72	51
I	76	51
I	81	51
I	85	50
I	90	49
I	94	48
I	99	47
I	103	46
I	108	45
I	112	44
I	117	42
I	121	41
I	126	41
I	130	41
I	135	40
I	139	39
I	144	38
I	148	37
I	153	37
I	157	37
I	162	35
I	166	35
I	171	34
I	175	33
I	180	33
I	184	32
I	189	30
I	193	30
I	198	29
I	202	28
I	207	28
I	211	27



ROUND NUMBER 292 CONTINUED

I	216	26
I	220	26
I	225	25
I	230	24
I	234	23
I	239	22
I	243	21
I	248	21
I	252	20
I	256	19
I	261	19
I	266	18
I	270	18
I	274	17
I	279	17
I	284	16
I	288	16
I	292	15
I	297	14
I	302	13
I	306	12
I	311	11
I	315	10
I		

ROUND NUMBER = 41

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W,LHP,.38 SPEC

PROJECTILE VELOCITY (MPS) -360.45

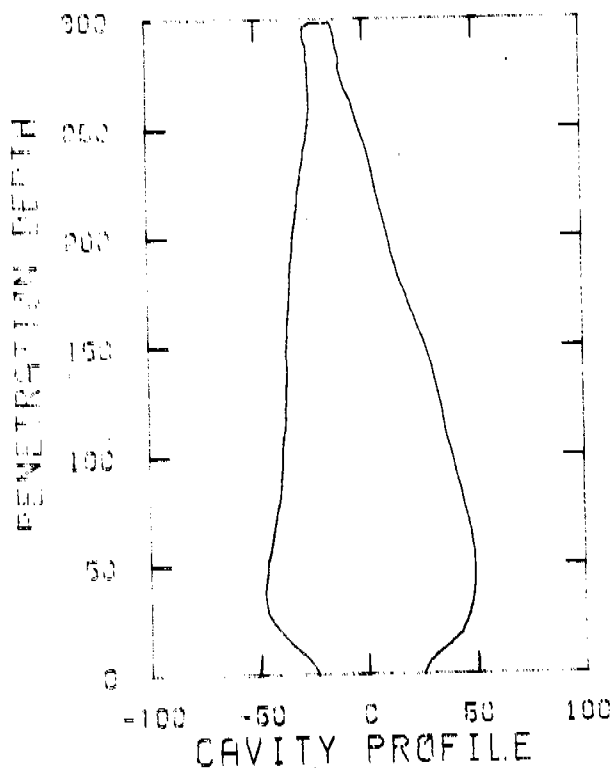
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
7	84	84
33	239	240
57	183	184
88	220	220
128	239	240

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	24
4	26
9	30
14	36
18	41
23	44
28	46
32	47
37	48
42	48
47	48
51	47
56	46
61	46
65	45
70	44
75	43
79	42
84	41
89	40
94	39
98	39
103	38
108	37
112	36
117	36
122	35
127	35
131	34
136	33
140	33
145	32
150	31
155	30
159	29
164	28
169	27
173	26
178	25
183	24
188	23
192	22
197	22
202	21
206	20
211	19
216	18
220	17



ROUND NUMBER 41 CONTINUED

I	225	16
I	230	16
I	235	15
I	239	14
I	244	13
I	249	11
I	253	10
I	258	9
I	263	9
I	268	8
I	272	7
I	277	6
I	282	7
I	286	6
I	291	7
I	296	6
I	298	4
I	0	0

ROUND NUMBER -- 293

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, LHP, .357 MAG PROJECTILE VELOCITY (MPS) --381.30

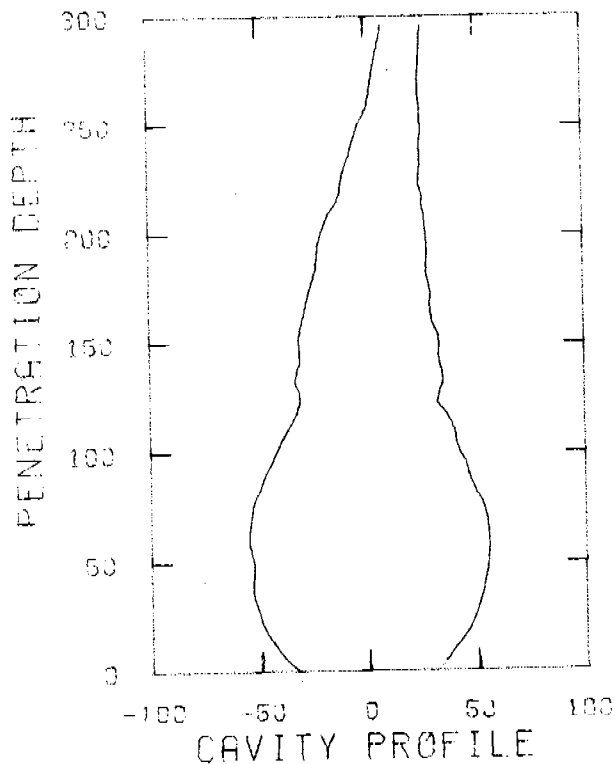
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-5	128	128
21	295	295
59	125	125
90	91	91
124	97	97
181	91	100
190	91	96

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	31
I 4	36
I 9	40
I 13	43
I 18	46
I 22	48
I 27	50
I 31	51
I 36	53
I 40	53
I 45	53
I 50	54
I 54	54
I 59	55
I 63	55
I 68	54
I 72	53
I 77	52
I 81	50
I 86	48
I 91	46
I 95	44
I 100	42
I 104	40
I 109	38
I 113	36
I 118	34
I 122	31
I 127	31
I 132	33
I 136	33
I 141	31
I 145	31
I 150	32
I 154	31
I 159	29
I 163	28
I 168	28
I 172	27
I 177	26
I 181	25
I 186	25
I 190	24
I 195	24
I 200	23
I 204	22
I 209	21
I 213	19



ROUND NUMBER 293 CONTINUED

I	218	18
I	222	17
I	227	17
I	232	16
I	236	15
I	241	15
I	245	14
I	250	14
I	254	12
I	259	11
I	263	10
I	268	10
I	272	10
I	277	9
I	282	9
I	286	9
I	291	8
I	295	8
I	300	8
I	304	7
I	309	6
I	314	6
I	318	5

ROUND NUMBER = 42

PROJECTILE MASS (GM) - 10.234

PROJECTILE TYPE - W-W, LHP, .38 SPEC

PROJECTILE VELOCITY (MPS) - 394.78

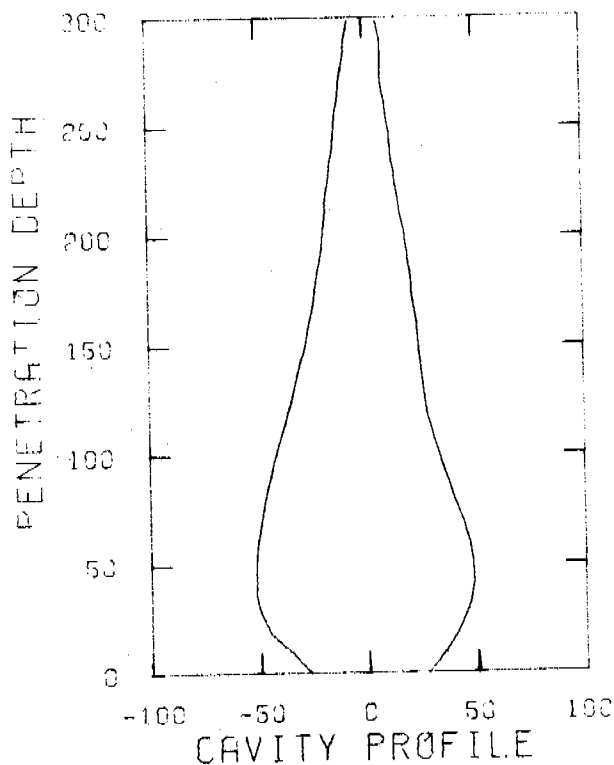
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
9	114	114
37	313	313
74	104	106
107	94	97
138	100	101

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	26
4	31
9	35
13	39
18	43
23	45
27	47
32	49
36	49
41	50
45	50
50	49
55	49
59	48
64	47
68	46
73	45
78	43
82	42
87	41
91	39
96	38
100	37
105	35
110	34
114	33
119	31
123	30
128	29
133	29
137	28
142	27
146	26
151	25
156	25
160	24
165	23
169	22
174	22
178	21
183	21
188	20
192	19
197	18
201	18
206	17
211	16
215	16



ROUND NUMBER 42 CONTINUED

I	220	16
I	224	15
I	229	14
I	233	14
I	238	13
I	243	12
I	247	12
I	252	11
I	256	11
I	261	10
I	266	9
I	270	9
I	275	8
I	279	8
I	284	8
I	289	8
I	293	7
I	298	6
I	302	6
I	307	6
I	311	6
I	316	7
I	0	0
I	0	0

ROUND NUMBER -- 321

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, LHP, .38 SPEC PROJECTILE VELOCITY (MPS) --399.59

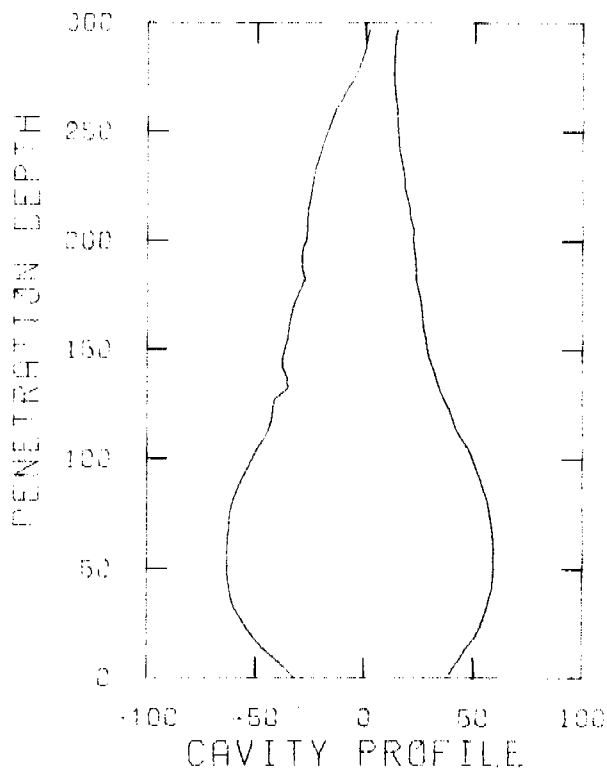
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-5	99	104
22	293	315
57	256	256
90	106	110
122	110	110
179	108	109
187	103	104

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	I CAVITY RADIUS(MM)
I 0	I 35
I 4	I 38
I 9	I 42
I 13	I 46
I 18	I 50
I 22	I 53
I 27	I 55
I 32	I 58
I 36	I 59
I 41	I 60
I 45	I 61
I 50	I 61
I 54	I 61
I 59	I 61
I 63	I 60
I 68	I 60
I 72	I 59
I 77	I 59
I 82	I 57
I 86	I 56
I 91	I 54
I 95	I 52
I 100	I 50
I 104	I 48
I 109	I 45
I 114	I 42
I 118	I 41
I 123	I 40
I 127	I 38
I 132	I 34
I 136	I 34
I 141	I 34
I 146	I 33
I 150	I 32
I 155	I 31
I 159	I 30
I 164	I 30
I 168	I 29
I 173	I 28
I 178	I 26
I 182	I 25
I 187	I 26
I 191	I 25
I 196	I 25
I 200	I 24
I 205	I 24
I 210	I 23
I 214	I 23



ROUND NUMBER 321 CONTINUED

I	219	22
I	223	21
I	228	20
I	232	19
I	237	18
I	242	17
I	246	16
I	251	15
I	255	14
I	260	13
I	264	12
I	269	10
I	273	9
I	278	7
I	282	7
I	287	6
I	292	6
I	296	6
I	301	6
I	306	6
I	310	5
I	315	5
I	319	5
I	324	4

ROUND NUMBER -- 301

PROJECTILE MASS (GM) -- 9.720

PROJECTILE TYPE --M-W, LRN, .38 SPEC PROJECTILE VFLOCITY (MPS) --282.55

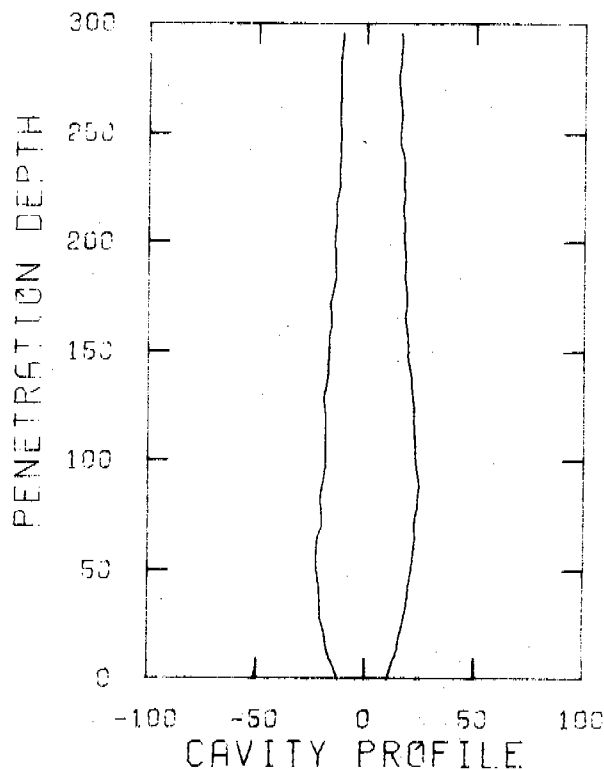
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
7	51	51
15	63	63
48	61	61
82	53	53
118	62	62
198	46	51
211	54	63

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	11
4	13
9	14
13	15
18	16
23	18
27	19
32	19
36	20
41	20
46	21
50	21
55	22
60	22
64	22
69	21
73	21
78	22
83	22
87	22
92	21
97	20
101	20
106	20
110	20
115	20
120	20
124	20
129	20
134	19
138	18
143	18
147	17
152	17
157	17
161	16
166	16
170	17
175	16
180	16
184	15
189	16
194	15
198	15
203	15
207	15
212	15
217	15



ROUND NUMBER 301 CONTINUED

I	221	15
I	226	14
I	231	14
I	235	14
I	240	14
I	244	13
I	249	13
I	254	13
I	258	14
I	263	13
I	267	13
I	272	13
I	277	13
I	281	13
I	286	13
I	291	13
I	295	13
I	300	12
I	304	12
I	309	11
I	313	11
I	318	11
I	323	11
I		

ROUND NUMBER -- 302

PROJECTILE MASS (GM) -- 9.720

PROJECTILE TYPE --W-W, LRN, .38 SPEC PROJECTILE VELOCITY (MPS) --346.86

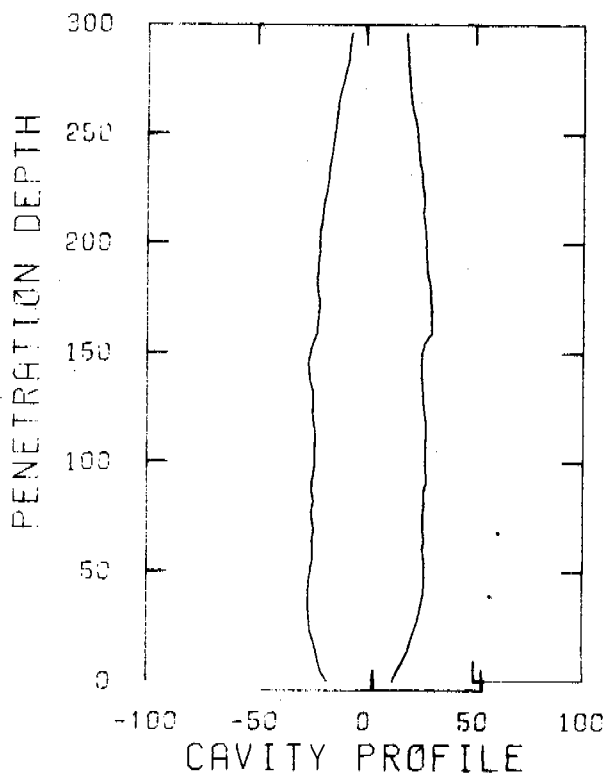
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
5	58	59
22	53	56
60	58	60
99	43	49
139	32	58
213	0	51
224	0	53

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	14
4	17
9	19
13	21
18	22
22	23
27	24
31	25
36	26
41	26
45	26
50	26
54	25
59	25
63	25
68	24
72	25
77	25
81	25
86	25
91	26
95	25
100	25
104	25
109	25
113	25
118	25
122	25
127	25
132	25
136	25
141	25
145	26
150	25
154	25
159	26
163	26
168	26
173	25
177	26
182	26
186	25
191	24
195	24
200	24
204	24
209	23
214	22



ROUND NUMBER 302 CONTINUED

I	218	22
I	223	22
I	227	21
I	232	21
I	236	20
I	241	19
I	245	19
I	250	18
I	255	18
I	259	17
I	264	16
I	268	15
I	273	14
I	277	14
I	282	13
I	286	13
I	291	12
I	296	12
I	300	11
I	305	10
I	309	10

ROUND NUMBER -- 303

PROJECTILE MASS (GM) -- 9.720

PROJECTILE TYPE --W-W, LRN, .38 SPEC PROJECTILE VELOCITY (MPS) --384.35

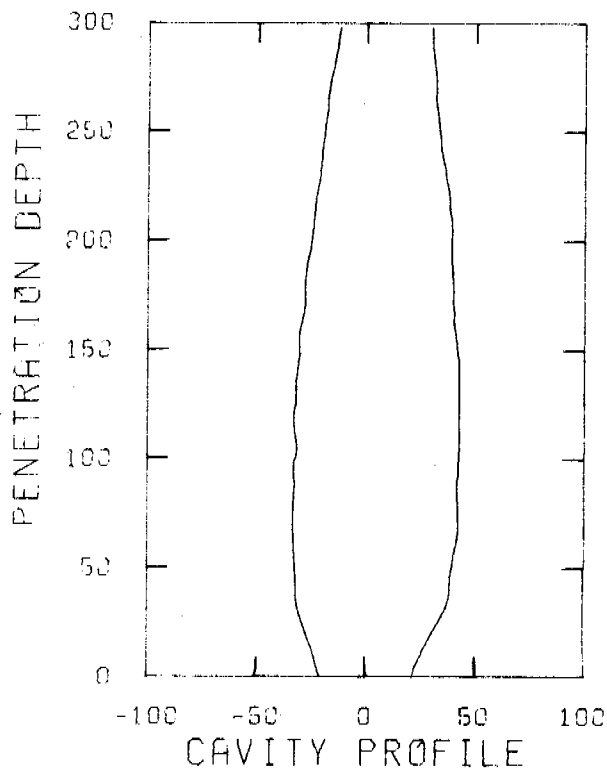
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-2	45	46
29	54	62
67	37	49
107	20	53
147	0	48
219	3	39
230	0	46

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	21
4	22
9	24
13	26
18	28
23	30
27	32
32	34
37	35
41	35
46	35
51	36
55	36
60	37
65	37
69	38
74	37
79	37
83	37
88	37
93	38
97	37
102	37
106	37
111	37
116	38
120	38
125	37
130	37
134	37
139	37
144	36
148	36
153	36
158	35
162	34
167	34
172	33
176	34
181	33
186	33
190	32
195	32
200	31
204	31
209	31
214	30
218	30



ROUND NUMBER 303 CONTINUED

I	223	29
I	227	28
I	232	28
I	237	27
I	241	26
I	246	26
I	251	25
I	255	25
I	260	24
I	265	24
I	269	24
I	274	23
I	279	22
I	284	22
I	288	21
I	293	21
I	297	20
I	302	19
I	307	17
I	311	14
I	316	12
I	321	11
I	323	11
I		

ROUND NUMBER -- 304

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, LRN, .38 SPEC PROJECTILE VELOCITY (MPS) --288.04

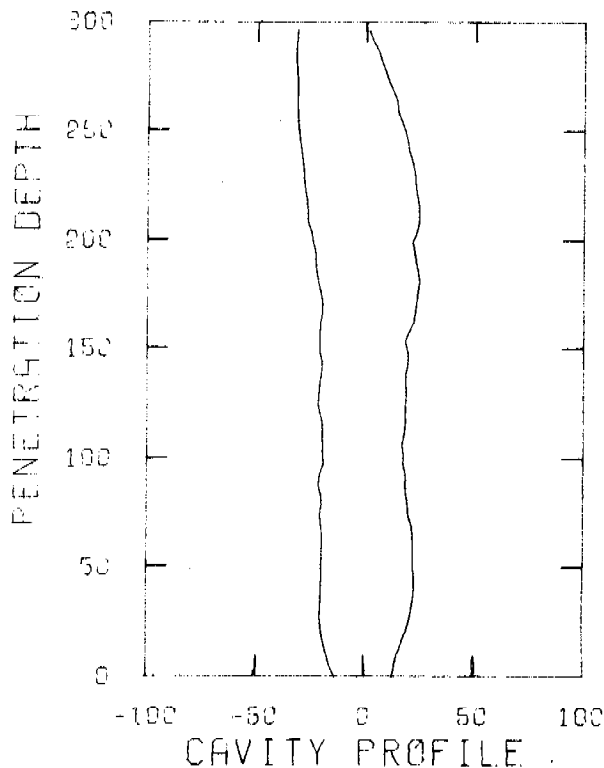
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
9	61	61
15	59	59
46	58	58
81	56	57
118	57	57
194	32	46
204	36	47

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	13
4	14
9	16
13	17
18	19
23	20
27	20
32	21
37	21
41	21
46	21
51	21
55	21
60	21
64	20
69	20
74	20
78	19
83	19
88	20
92	19
97	18
102	18
106	18
111	19
115	19
120	19
125	20
129	20
134	19
138	19
143	19
148	20
152	19
157	20
162	21
166	21
171	21
175	22
180	23
185	23
189	23
194	22
199	22
203	24
208	25
212	25
217	25



ROUND NUMBER 304 CONTINUED

I	222	25
I	226	25
I	231	25
I	236	25
I	240	24
I	245	24
I	250	24
I	254	23
I	259	23
I	263	22
I	268	21
I	273	20
I	277	20
I	282	19
I	286	18
I	291	17
I	296	16
I	300	15
I	305	13
I	310	11
I	314	10

ROUND NUMBER -- 305

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, LRN, .38 SPEC PROJECTILE VELOCITY (MPS) --331.93

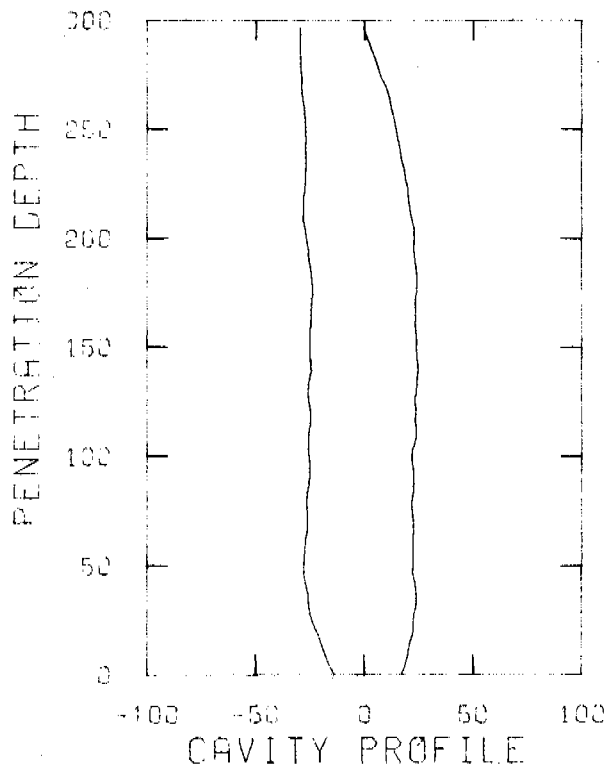
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	56	56
24	59	60
60	51	51
99	50	50
139	49	50
215	5	52
227	2	45

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	15
I 4	17
I 9	19
I 13	20
I 18	21
I 23	23
I 27	24
I 32	24
I 37	24
I 41	25
I 46	25
I 51	25
I 55	25
I 60	24
I 64	24
I 69	24
I 74	24
I 78	24
I 83	24
I 88	24
I 92	23
I 97	23
I 102	23
I 106	24
I 111	24
I 115	23
I 120	24
I 125	24
I 129	25
I 134	24
I 139	24
I 143	24
I 148	24
I 153	24
I 157	24
I 162	23
I 166	23
I 171	23
I 176	24
I 180	24
I 185	24
I 190	24
I 194	24
I 199	24
I 204	25
I 208	25
I 213	24
I 217	24



ROUND NUMBER 305 CONTINUED

I	222	23
I	227	23
I	231	22
I	236	21
I	240	21
I	245	21
I	250	20
I	254	20
I	259	20
I	264	20
I	268	19
I	273	18
I	277	17
I	282	17
I	287	16
I	291	15
I	296	14
I	301	13
I	305	12
I	310	11
I	315	10
I	319	8
I	324	7
I		

ROUND NUMBER -- 306

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, LRN, .38 SPEC PROJECTILE VELOCITY (MPS) --381.30

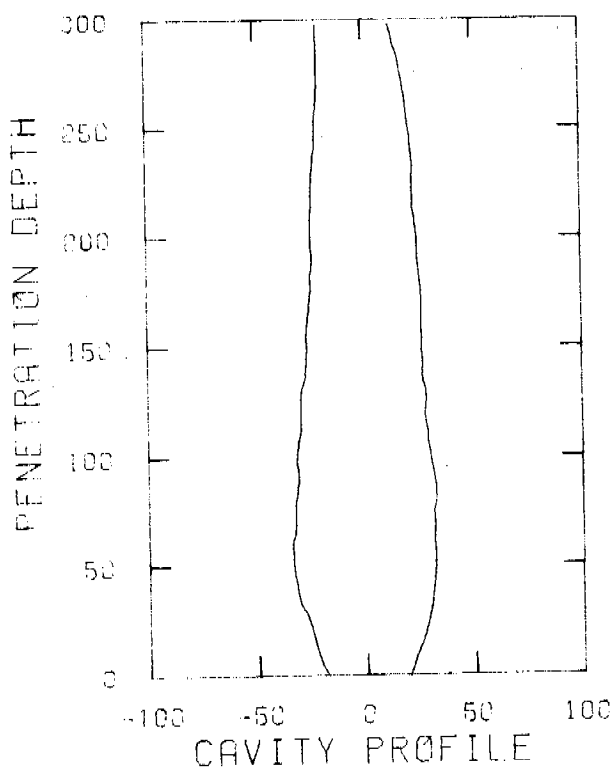
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	54	55
31	58	58
63	43	46
109	40	46
150	41	50
237	55	55
248	51	52

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	18
4	21
9	22
14	24
18	25
23	27
27	28
32	30
37	31
41	31
46	32
51	32
55	32
60	32
65	32
69	32
74	31
78	32
83	32
88	31
93	31
97	31
102	30
107	29
111	29
116	28
120	28
125	28
130	28
134	27
139	26
144	26
148	26
153	26
158	26
162	25
167	25
172	25
176	25
181	25
186	24
190	24
195	24
199	24
204	24
209	23
213	23
218	23



ROUND NUMBER 306 CONTINUED

I	223	23
I	227	23
I	232	22
I	237	22
I	241	21
I	246	21
I	251	21
I	255	21
I	260	20
I	265	20
I	269	19
I	274	19
I	279	18
I	283	18
I	288	17
I	292	17
I	297	16
I	302	15
I	306	14
I	311	13
I	316	12
I	320	12
I	323	11
I		

ROUND NUMBER - 57

PROJECTILE MAS (GM) - 9.590

PROJECTILE TYPE - W-W, MATCH, .38S&P PROJECTILE VELOCITY (MPS) - 119.09

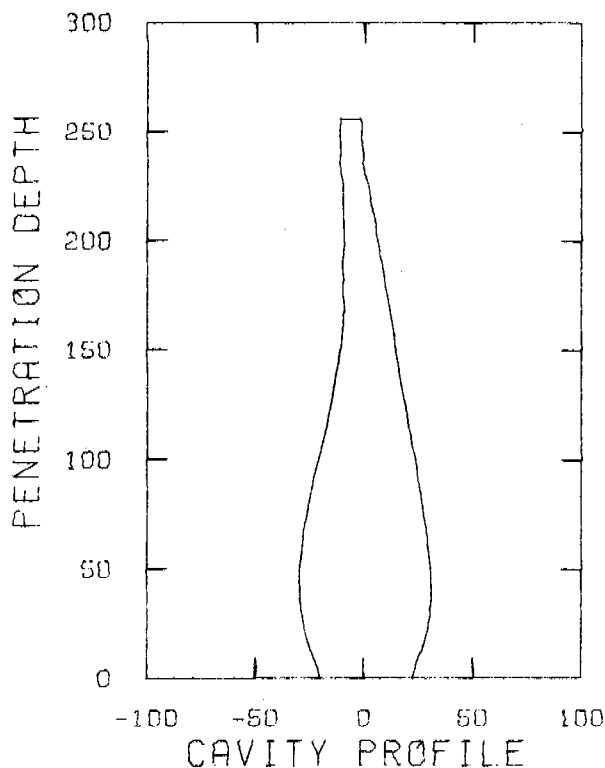
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
9	85	86
29	99	99
54	97	97
76	94	94
100	103	104

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	21
4	22
9	24
13	26
18	27
23	28
27	29
32	29
37	30
41	30
46	30
50	30
55	29
59	28
64	28
69	27
74	26
78	26
83	25
87	24
92	23
97	22
101	21
106	20
110	19
115	18
120	17
124	16
129	16
133	15
138	14
143	13
147	12
152	12
157	11
161	11
166	10
171	10
175	9
179	9
184	9
189	8
193	8
198	7
203	7
207	7
212	6
217	6



ROUND NUMBER 57 CONTINUED

I	221	5
I	226	5
I	230	5
I	235	5
I	240	5
I	244	4
I	249	4
I	253	4
I	256	4

ROUND NUMBER -- 291

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, MP, .357 MAG

PROJECTILE VELOCITY (MPS) --391.36

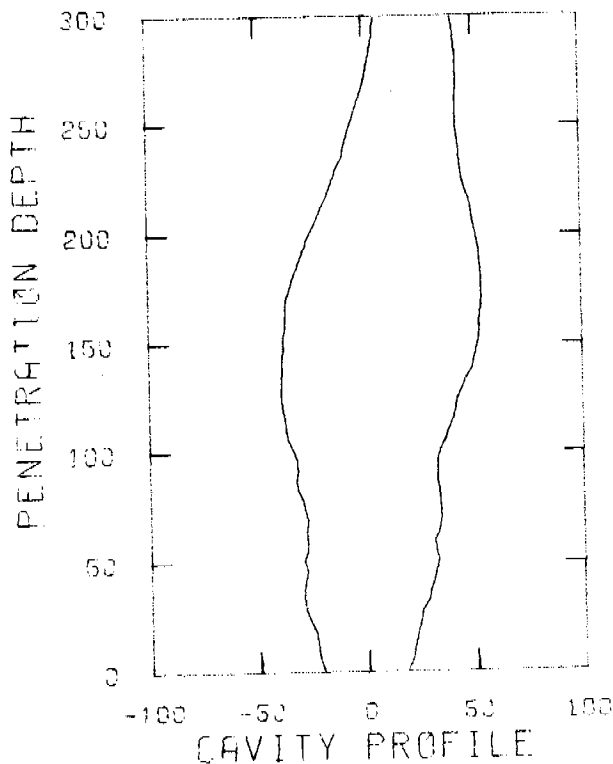
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-4	61	61
30	55	55
72	42	47
111	30	46
152	11	37
228	23	52
239	13	54

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	19
I 4	20
I 9	22
I 13	22
I 18	23
I 22	25
I 27	26
I 32	28
I 36	29
I 41	29
I 45	29
I 50	30
I 55	30
I 59	29
I 64	30
I 69	30
I 73	31
I 78	31
I 82	32
I 87	32
I 91	32
I 96	32
I 101	34
I 106	36
I 110	37
I 115	38
I 119	39
I 124	40
I 128	41
I 133	42
I 138	44
I 142	44
I 147	44
I 152	45
I 156	45
I 161	45
I 165	45
I 170	45
I 174	44
I 179	43
I 184	42
I 188	41
I 193	40
I 197	39
I 202	37
I 207	35
I 211	34
I 216	32



ROUND NUMBER 291 CONTINUED

I	221	31
I	225	29
I	230	28
I	234	26
I	239	26
I	244	25
I	248	24
I	253	23
I	257	22
I	262	22
I	267	21
I	271	20
I	276	20
I	280	19
I	285	19
I	290	18
I	294	18
I	299	17
I	303	16
I	308	15
I	313	14
I	317	13
I	322	13
I		

ROUND NUMBER - 55

PROJECTILE MASS (GM)-10.230

PROJECTILE TYPE -W-W, HP, .357 MAG PROJECTILE VELOCITY (MPS) -401.37

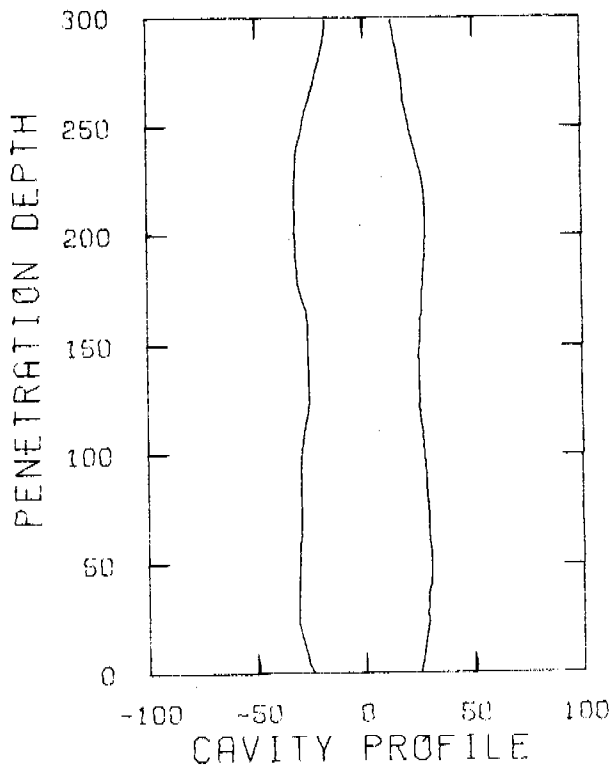
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM ² ±2)	CROSS-SECT AREA (MM ² ±2)
23	60	60
66	59	59
121	54	57
170	33	49
214	0	65

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	24
4	26
9	27
13	28
18	29
22	29
27	29
32	30
36	30
41	30
45	30
50	30
55	30
59	29
64	29
68	29
73	29
78	29
82	28
87	28
91	28
96	28
101	27
105	27
110	27
114	26
119	25
124	25
128	25
133	25
137	25
142	25
147	25
151	25
156	25
160	25
165	26
170	27
174	28
179	28
183	29
188	29
192	30
197	30
202	30
206	30
211	30
216	30



ROUND NUMBER 55 CONTINUED

1	220	29
1	225	29
1	229	28
1	234	27
1	238	26
1	243	25
1	248	24
1	252	23
1	257	22
1	261	21
1	266	20
1	271	19
1	275	18
1	280	17
1	284	17
1	289	16
1	294	15
1	298	14
1	303	14
1	308	13
1	312	12
1	317	11
1	320	11
1	0	0

ROUND NUMBER -- 311

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, RN, .38 SPEC

PROJECTILE VELOCITY (MPS) --304.19

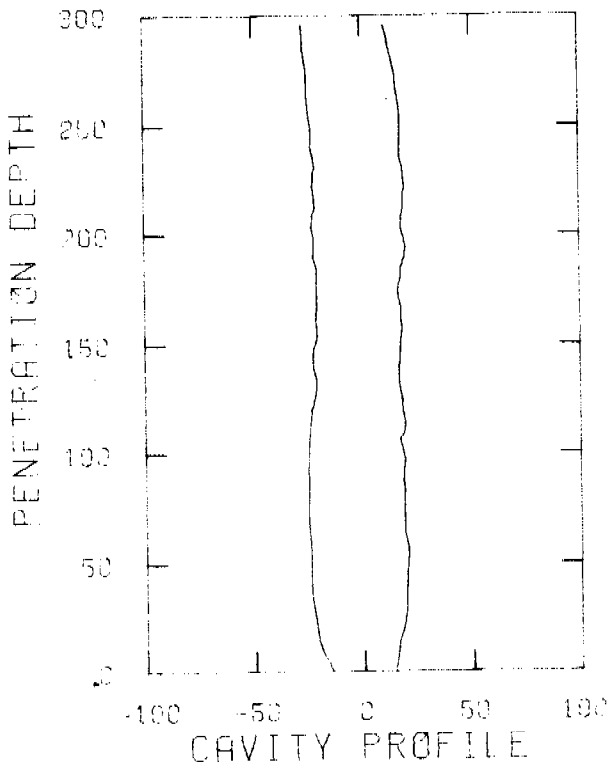
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	52	52
16	52	52
50	52	52
87	58	58
126	54	57
208	52	53
220	47	57

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	14
I 4	15
I 9	17
I 14	18
I 18	19
I 23	20
I 27	21
I 32	21
I 37	21
I 41	22
I 46	22
I 50	22
I 55	22
I 60	22
I 64	21
I 69	21
I 73	22
I 78	21
I 83	21
I 87	21
I 92	21
I 97	22
I 101	21
I 106	20
I 110	21
I 115	21
I 120	20
I 124	19
I 129	19
I 134	18
I 138	19
I 143	19
I 147	19
I 152	19
I 157	19
I 161	19
I 166	19
I 171	18
I 175	18
I 180	19
I 184	19
I 189	20
I 194	21
I 198	20
I 203	20
I 207	20
I 212	20
I 217	20



ROUND NUMBER 311 CONTINUED

I	221	21
I	226	20
I	231	20
I	235	19
I	240	20
I	244	20
I	249	20
I	254	20
I	258	21
I	263	20
I	267	20
I	272	20
I	277	20
I	281	19
I	286	19
I	291	19
I	295	18
I	300	18
I	305	17
I	309	16
I	314	16
I	318	15
I	323	14
I	327	12

ROUND NUMBER -- 312

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, RN, .38 SPEC

PROJECTILE VELOCITY (MPS) --334.67

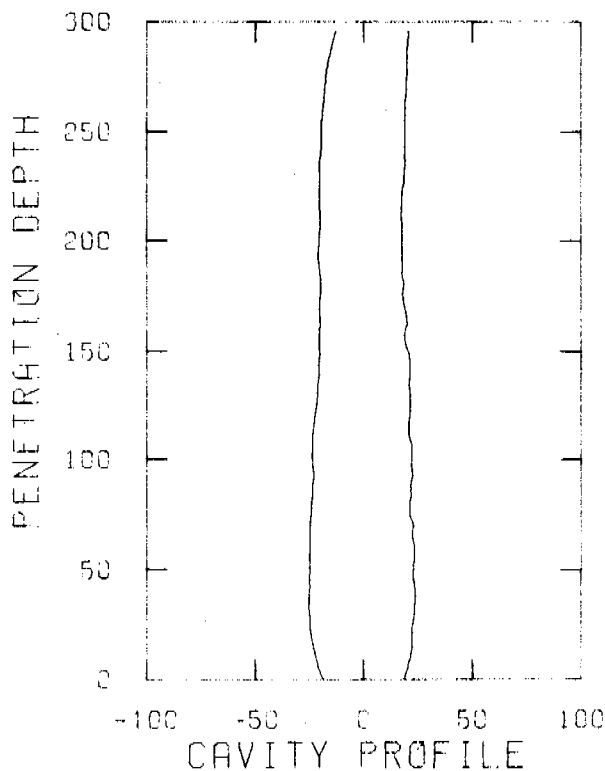
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-6	64	64
21	61	61
57	57	57
97	52	53
139	56	58
229	53	54
242	41	47

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	18
I	4	20
I	9	21
I	14	22
I	18	23
I	23	23
I	28	23
I	32	24
I	37	24
I	41	24
I	46	23
I	51	23
I	55	23
I	60	23
I	64	23
I	69	23
I	74	22
I	78	22
I	83	22
I	88	22
I	92	22
I	97	22
I	101	22
I	106	22
I	111	21
I	115	21
I	120	21
I	124	21
I	129	21
I	134	20
I	138	20
I	143	20
I	148	20
I	152	19
I	157	19
I	162	19
I	166	19
I	171	19
I	175	18
I	180	18
I	185	18
I	189	19
I	194	19
I	199	18
I	203	18
I	208	18
I	212	18
I	217	18



ROUND NUMBER 312 CONTINUED

I	221	18
I	226	19
I	231	19
I	235	19
I	240	19
I	245	19
I	249	19
I	254	18
I	259	18
I	263	18
I	268	18
I	272	18
I	277	18
I	282	17
I	286	17
I	291	17
I	296	16
I	300	16
I	305	15
I	310	14
I		

ROUND NUMBER -- 313

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, RN, .38 SPEC

PROJECTILE VELOCITY (MPS) --376.73

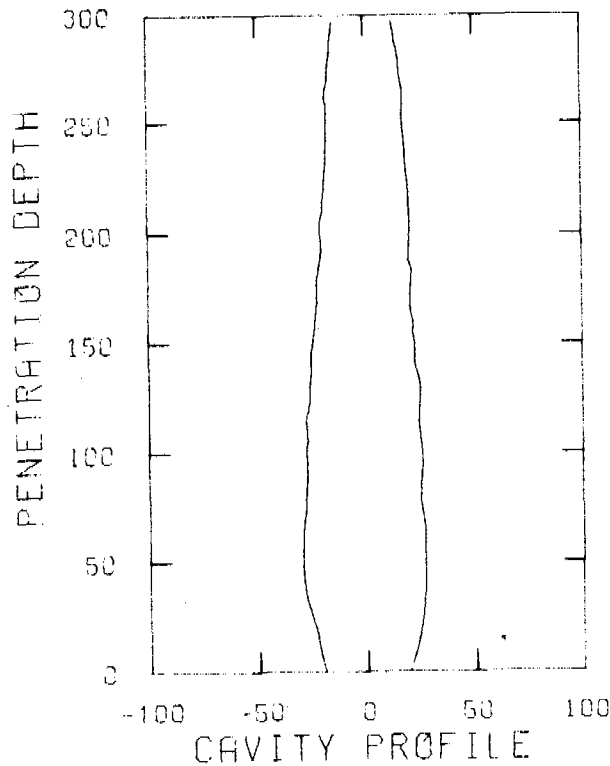
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-4	59	59
26	56	56
66	52	53
108	49	51
153	51	54
245	49	50
259	47	50

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	19
I 4	21
I 9	22
I 13	23
I 18	24
I 22	25
I 27	26
I 32	27
I 36	27
I 41	28
I 45	28
I 50	28
I 54	28
I 59	28
I 63	28
I 68	27
I 73	26
I 77	26
I 82	26
I 86	26
I 91	26
I 95	26
I 100	26
I 105	26
I 109	25
I 114	25
I 118	25
I 123	25
I 127	25
I 132	25
I 137	24
I 141	23
I 146	23
I 150	23
I 155	22
I 159	22
I 164	21
I 168	21
I 173	21
I 178	21
I 182	21
I 187	20
I 191	20
I 196	20
I 200	20
I 205	20
I 210	19
I 214	19



ROUND NUMBER 313 CONTINUED

I	219	19
I	223	19
I	228	18
I	232	18
I	237	18
I	242	17
I	246	17
I	251	17
I	255	17
I	260	17
I	264	17
I	269	16
I	273	16
I	278	15
I	283	15
I	287	14
I	292	14
I	296	13
I	301	12
I	305	12
I	310	11
I	315	11
I		

ROUND NUMBER -- 307

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, SWC, .38 SPEC PROJECTILE VELOCITY (MPS) --241.40

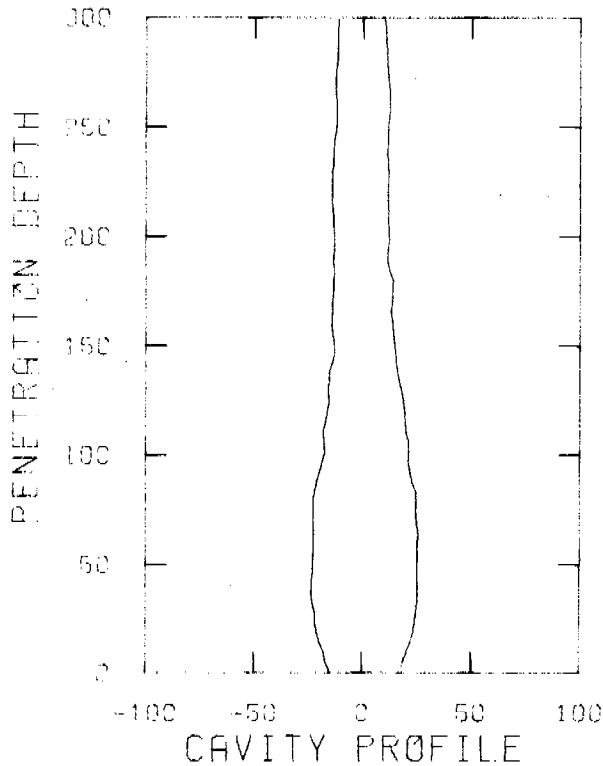
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-10	52	53
10	55	55
35	55	56
64	51	52
93	52	52
156	54	55
166	57	58

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	15
I 4	17
I 9	19
I 13	21
I 18	22
I 23	23
I 27	23
I 32	24
I 36	24
I 41	24
I 46	24
I 50	24
I 55	23
I 59	23
I 64	24
I 69	23
I 73	23
I 78	23
I 82	23
I 87	21
I 92	20
I 96	19
I 101	19
I 106	19
I 110	18
I 115	18
I 119	17
I 124	17
I 129	17
I 133	16
I 138	15
I 142	14
I 147	13
I 151	13
I 156	14
I 161	13
I 165	13
I 170	13
I 175	13
I 179	13
I 184	12
I 188	12
I 193	12
I 198	12
I 202	12
I 207	12
I 211	12
I 216	12



ROUND NUMBER 307 CONTINUED

I	221	12
I	225	13
I	230	12
I	234	12
I	239	12
I	244	12
I	248	11
I	253	11
I	257	12
I	262	12
I	267	12
I	271	11
I	276	11
I	280	11
I	285	11
I	290	10
I	294	10
I	299	10
I	304	9
I	308	9
I	313	9

ROUND NUMBER -- 308

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, SWC, .38 SPEC PROJECTILE VELOCITY (MPS) --262.43

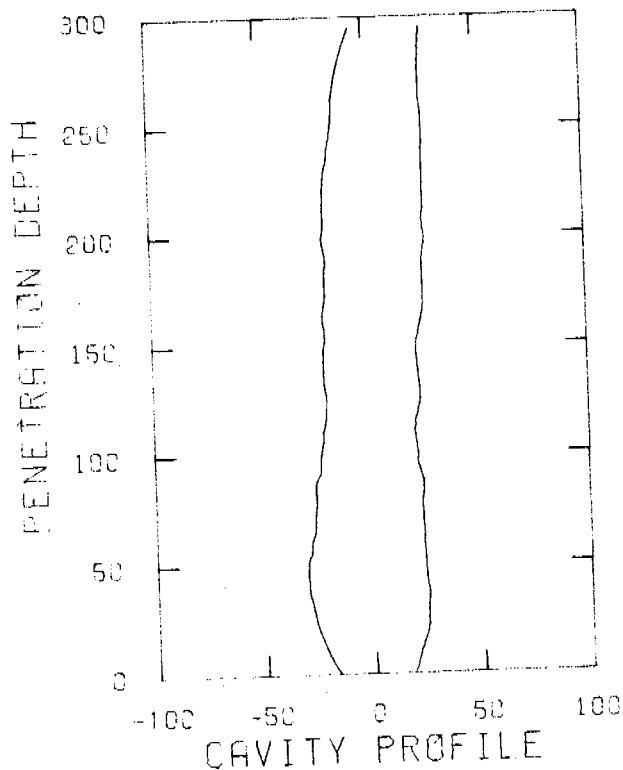
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-10	57	58
14	62	62
44	51	51
77	47	48
111	47	50
178	41	53
188	37	56

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	17
I	4	19
I	9	21
I	13	22
I	18	24
I	22	25
I	27	26
I	32	26
I	36	27
I	41	27
I	46	27
I	50	27
I	55	26
I	59	25
I	64	25
I	68	24
I	73	24
I	78	24
I	82	24
I	87	24
I	92	22
I	96	22
I	101	21
I	105	21
I	110	20
I	115	20
I	119	21
I	124	21
I	129	21
I	133	21
I	138	21
I	143	21
I	147	21
I	152	20
I	156	21
I	161	22
I	165	23
I	170	22
I	175	22
I	179	22
I	184	22
I	188	22
I	193	23
I	198	23
I	202	23
I	207	22
I	212	23
I	216	22



ROUND NUMBER 308 CONTINUED

I	221	22
I	225	22
I	230	22
I	235	21
I	239	21
I	244	21
I	249	20
I	253	20
I	258	20
I	262	19
I	267	19
I	272	19
I	276	18
I	281	18
I	285	17
I	290	16
I	295	16
I	300	15
I	304	14
I	308	13
I	313	13
I	318	12
I	322	11
I		

ROUND NUMBER -- 309

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, SWC, .38 SPEC PROJECTILE VELOCITY (MPS) --342.90

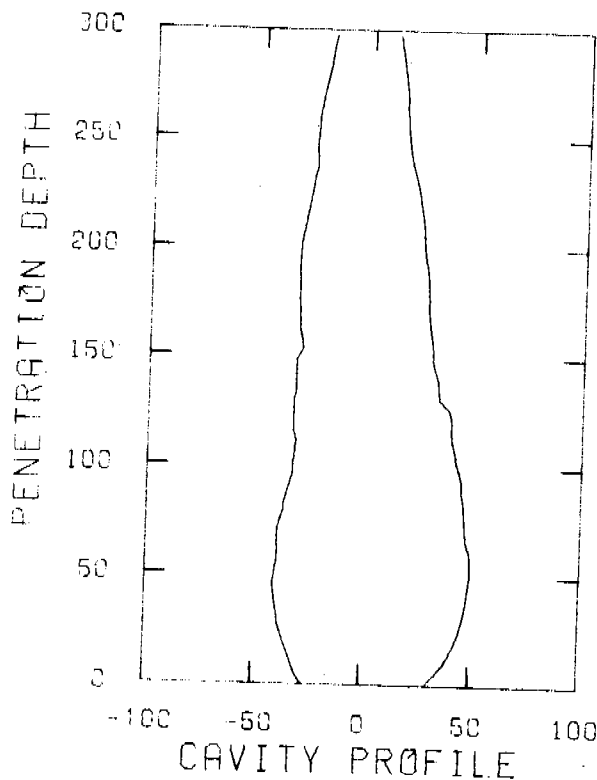
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-4	58	60
21	60	64
53	64	67
88	59	68
*	*	*
189	64	64
*	*	*

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	28
I	4	31
I	9	34
I	13	37
I	18	39
I	23	41
I	27	42
I	32	43
I	37	44
I	41	44
I	46	45
I	50	45
I	55	44
I	60	44
I	64	43
I	69	43
I	74	42
I	78	41
I	83	41
I	88	40
I	92	39
I	97	38
I	102	37
I	106	36
I	111	35
I	115	36
I	120	36
I	125	35
I	129	33
I	134	32
I	139	32
I	143	31
I	148	31
I	153	29
I	157	29
I	162	30
I	166	29
I	171	29
I	176	29
I	180	29
I	185	29
I	190	29
I	194	28
I	199	28
I	203	28
I	208	27
I	213	26
I	218	25



ROUND NUMBER 309 CONTINUED

I	222	25
I	227	24
I	231	23
I	236	21
I	241	21
I	245	21
I	250	20
I	255	20
I	259	20
I	264	19
I	269	19
I	273	18
I	278	17
I	282	16
I	287	16
I	292	15
I	296	14
I	301	13
I	306	12
I	310	11
I	315	10
I	318	9
I		

ROUND NUMBER - 58

PROJECTILE MASS (GM)-10.238

PROJECTILE TYPE -W-W, SWC, .38 SPEC PROJECTILE VELOCITY (MPS) -344.23

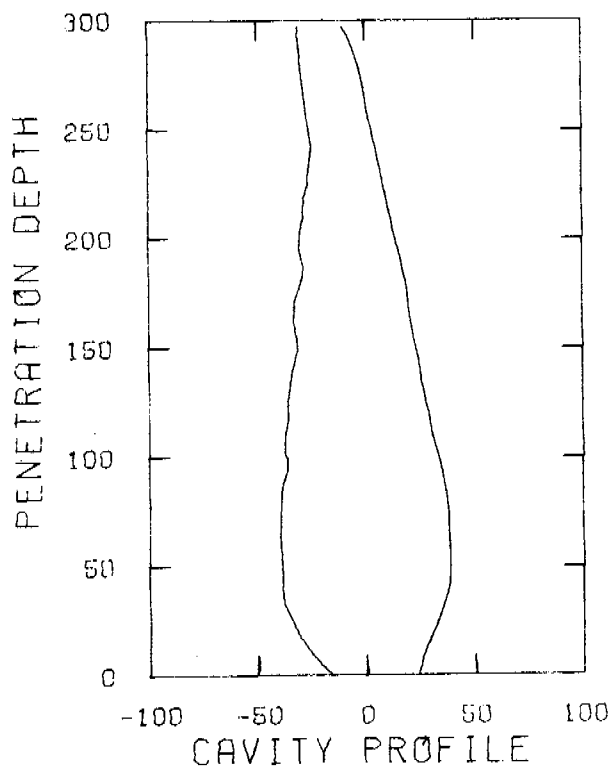
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM ²)	CROSS-SECT AREA (MM ²)
13	56	56
42	85	85
77	88	88
109	94	103
142	85	100

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	19
4	22
9	25
13	28
18	30
23	33
27	34
32	36
37	38
41	38
46	38
51	39
55	39
60	39
65	39
69	38
74	38
78	38
83	37
88	36
93	35
97	34
102	35
106	34
111	33
116	32
120	32
125	31
130	30
134	29
139	29
144	28
148	27
153	26
157	26
162	26
167	26
172	25
176	24
181	23
185	22
190	22
195	22
199	21
204	21
209	20
213	19
218	18



ROUND NUMBER 58 CONTINUED

1	222	17
1	227	16
1	232	16
1	236	15
1	241	14
1	246	14
1	250	14
1	255	14
1	260	14
1	264	13
1	269	13
1	273	13
1	278	13
1	283	12
1	287	12
1	292	11
1	297	10
1	301	8
1	306	8
1	311	7
1	315	7

ROUND NUMBER -- 310

PROJECTILE MASS (GM) --10.238

PROJECTILE TYPE --W-W, SWC, .38 SPEC PROJECTILE VELOCITY (MPS) --392.28

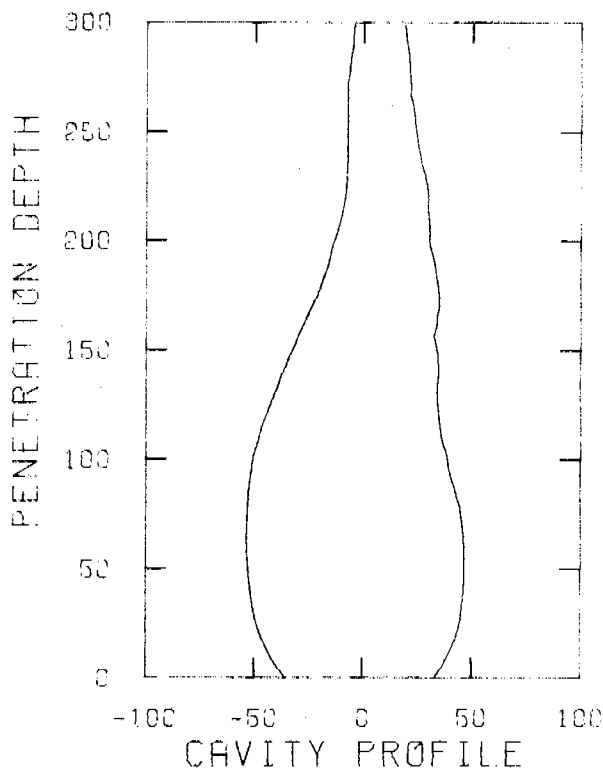
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-2	108	108
26	123	124
61	128	132
94	84	113
127	93	113
190	107	121
199	100	116

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	34
I	4	37
I	9	40
I	13	42
I	18	44
I	23	46
I	27	47
I	32	48
I	36	48
I	41	49
I	46	49
I	50	49
I	55	49
I	59	50
I	64	49
I	68	49
I	73	49
I	78	48
I	82	47
I	87	47
I	91	45
I	96	45
I	101	44
I	105	43
I	110	41
I	115	40
I	119	39
I	124	38
I	128	37
I	133	36
I	138	36
I	142	35
I	146	34
I	151	32
I	156	31
I	160	30
I	165	29
I	170	29
I	174	27
I	179	26
I	183	25
I	188	24
I	193	23
I	197	22
I	202	21
I	207	20
I	211	19
I	216	19



ROUND NUMBER 310 CONTINUED

I	220	18
I	225	18
I	229	17
I	234	16
I	239	16
I	243	16
I	248	15
I	252	15
I	257	15
I	262	14
I	266	14
I	271	14
I	275	13
I	280	13
I	285	13
I	289	12
I	294	11
I	299	11
I	303	11
I	308	10
I	312	10

ROUND NUMBER -- 367

PROJECTILE MASS (GM) -- 9.590

PROJECTILE TYPE --W-W, WC,38SPEC

PROJECTILE VELOCITY (MPS) --238.35

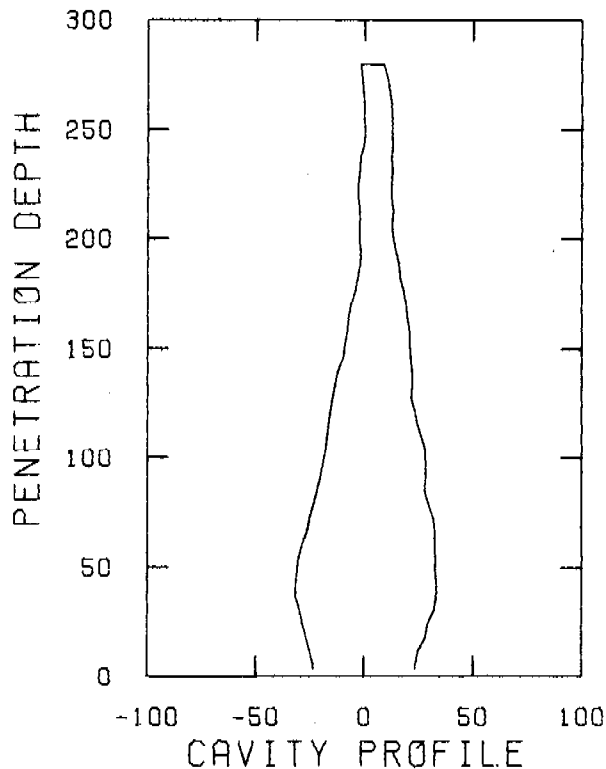
PROJECTILE DIAMETER (CM) -- 9.060

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
6	106	106
18	100	100
39	95	95
61	81	83
83	87	87
111	111	112
125	104	106

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	23
I	6	23
I	12	25
I	18	27
I	24	28
I	30	31
I	36	32
I	42	32
I	48	31
I	54	31
I	61	30
I	66	29
I	72	28
I	79	26
I	85	24
I	91	24
I	97	23
I	103	23
I	109	21
I	115	20
I	121	19
I	127	17
I	134	17
I	139	17
I	146	15
I	152	14
I	158	14
I	164	13
I	170	12
I	176	11
I	182	9
I	188	8
I	194	7
I	200	7
I	206	7
I	213	7
I	219	7
I	225	7
I	231	7
I	237	7
I	243	6
I	249	6
I	255	6
I	261	6
I	267	5
I	273	5
I	279	5



ROUND NUMBER -- 314

PROJECTILE MASS (GM) -- 9.590

PROJECTILE TYPE --W-W, WC, .38 SPEC

PROJECTILE VELOCITY (MPS) --264.87

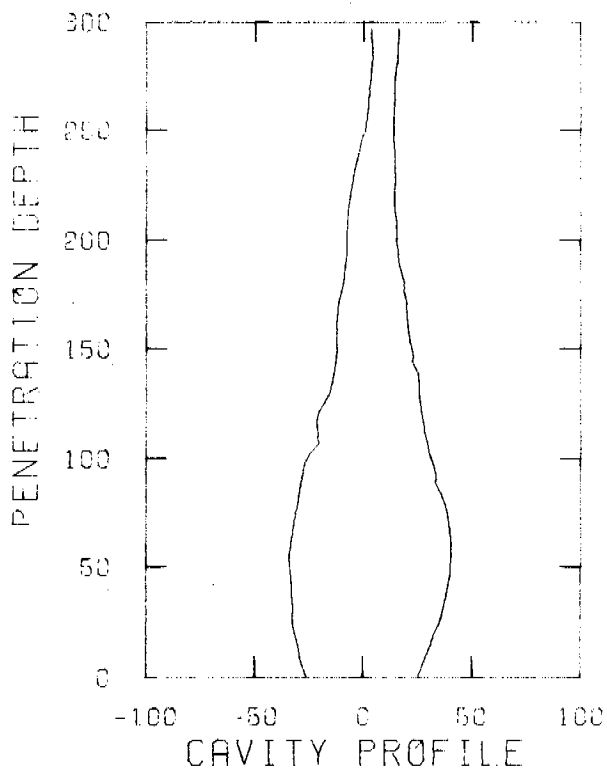
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-8	121	121
11	112	113
36	100	100
61	111	113
86	103	108
133	100	119
141	95	109

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	I CAVITY RADIUS(MM)
I 0	I 25
I 4	I 27
I 9	I 29
I 13	I 30
I 18	I 31
I 23	I 33
I 27	I 34
I 32	I 34
I 37	I 35
I 41	I 36
I 46	I 36
I 51	I 37
I 55	I 37
I 60	I 37
I 64	I 36
I 69	I 35
I 74	I 34
I 78	I 33
I 83	I 32
I 88	I 31
I 92	I 30
I 97	I 29
I 102	I 27
I 106	I 25
I 111	I 24
I 116	I 24
I 120	I 23
I 125	I 22
I 129	I 20
I 134	I 19
I 139	I 19
I 143	I 17
I 148	I 17
I 153	I 16
I 157	I 16
I 162	I 16
I 166	I 15
I 171	I 15
I 176	I 14
I 180	I 13
I 185	I 12
I 190	I 11
I 194	I 11
I 199	I 11
I 203	I 11
I 208	I 11
I 213	I 10
I 218	I 10



ROUND NUMBER 314 CONTINUED

I	222	9
I	227	9
I	231	9
I	236	8
I	241	7
I	245	7
I	250	6
I	255	5
I	259	5
I	264	5
I	269	5
I	273	5
I	278	5
I	282	5
I	287	5
I	292	6
I	296	6
I	301	5
I	306	5
I	310	4
I	315	4
I	320	4
I		

ROUND NUMBER -- 366

PROJECTILE MASS (GM) -- 9.590

PROJECTILE TYPE --W-W, WC,38SPEC

PROJECTILE VELOCITY (MPS) --308.76

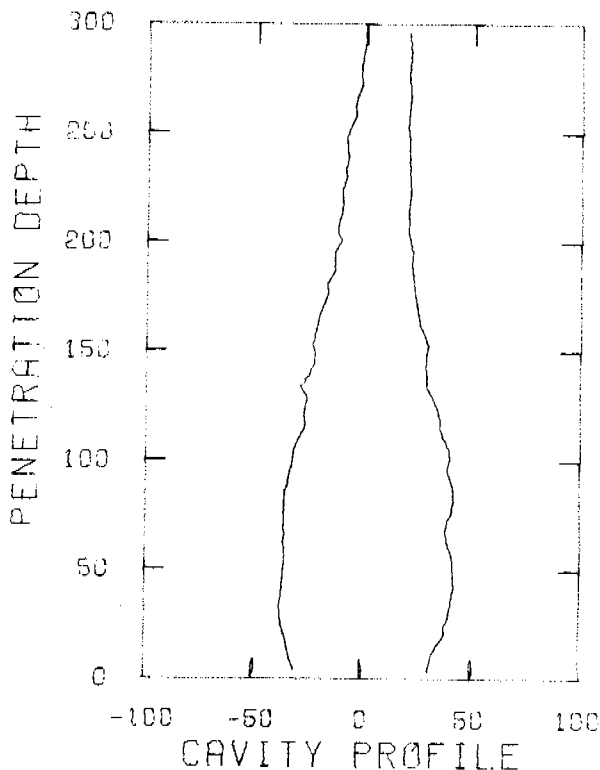
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	142	143
20	135	136
57	143	149
85	124	132
113	119	120
152	123	124
170	120	121

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	29
4	30
9	32
14	34
19	36
23	37
28	39
33	39
38	39
42	39
47	39
52	38
57	38
61	37
66	37
71	37
76	38
81	39
85	38
90	37
95	36
100	36
105	35
109	33
114	31
119	31
124	30
128	28
133	28
138	27
143	25
148	25
152	26
157	24
162	23
167	22
171	20
176	19
181	19
186	17
190	17
195	17
200	15
200	14
205	15
210	15
214	15
219	15



ROUND NUMBER 366 CONTINUED

I	224	15
I	229	14
I	234	14
I	238	13
I	243	13
I	248	13
I	253	12
I	257	12
I	262	12
I	267	11
I	272	10
I	276	10
I	281	10
I	286	10
I	291	9
I	296	9
I	300	9
I	305	8

ROUND NUMBER -- 315

PROJECTILE MASS (GM) -- 9.590

PROJECTILE TYPE --W-W, WC, .38 SPEC

PROJECTILE VELOCITY (MPS) --318.52

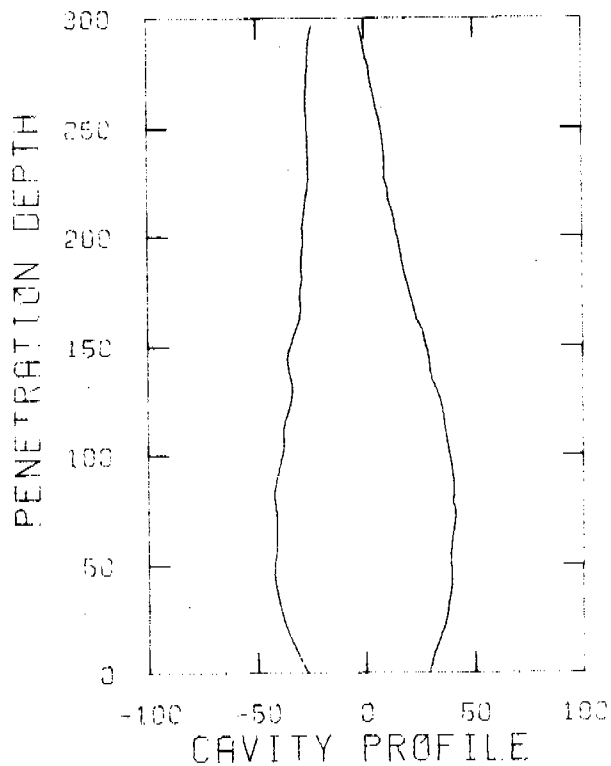
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-6	123	123
18	107	107
48	119	119
78	117	117
109	111	111
169	106	112
178	108	115

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	I CAVITY RADIUS(MM)
I 0	I 28
I 4	I 29
I 9	I 31
I 13	I 33
I 18	I 35
I 23	I 37
I 27	I 38
I 32	I 39
I 36	I 40
I 41	I 40
I 46	I 40
I 50	I 40
I 55	I 40
I 60	I 40
I 64	I 40
I 69	I 40
I 73	I 41
I 78	I 40
I 83	I 41
I 87	I 40
I 92	I 40
I 97	I 39
I 101	I 38
I 106	I 37
I 111	I 37
I 115	I 36
I 120	I 35
I 124	I 34
I 129	I 33
I 134	I 32
I 138	I 32
I 143	I 32
I 148	I 31
I 152	I 30
I 157	I 29
I 161	I 26
I 166	I 25
I 171	I 25
I 175	I 24
I 180	I 23
I 184	I 23
I 189	I 23
I 194	I 22
I 198	I 21
I 203	I 21
I 208	I 20
I 212	I 19
I 217	I 18



ROUND NUMBER 315 CONTINUED

I	222	18
I	226	17
I	231	17
I	236	17
I	240	17
I	245	17
I	250	16
I	254	16
I	259	16
I	263	15
I	268	14
I	273	14
I	277	13
I	282	13
I	286	12
I	291	11
I	296	10
I	300	9
I	305	8
I	310	7
I	314	7
I	319	6
I	324	6
I		

ROUND NUMBER -- 316

PROJECTILE MASS (GM) -- 9.590

PROJECTILE TYPE --W-W, WC, .38 SPEC

PROJECTILE VELOCITY (MPS) --494.69

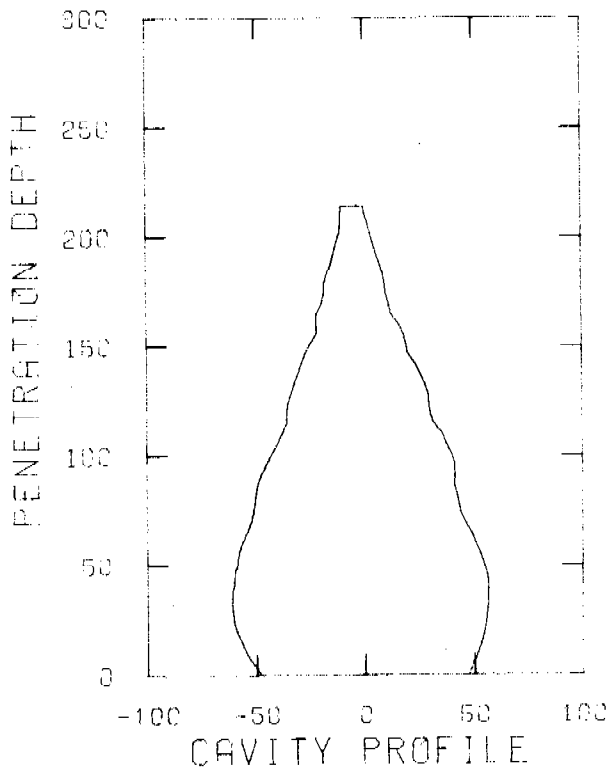
PROJECTILE DIAMETER (CM) -- 9.068

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
0	196	196
31	146	146
61	146	146
87	143	144
111	145	146
149	125	125
154	131	134

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	47
4	50
9	53
13	54
18	56
23	57
27	58
32	58
36	58
41	58
46	57
50	56
55	55
59	53
64	51
68	49
73	47
77	46
82	46
86	45
91	44
96	43
100	41
105	38
110	36
114	33
119	32
123	32
128	31
132	29
137	27
141	26
146	23
151	21
155	19
160	18
164	16
169	15
174	14
178	13
183	12
187	11
192	9
196	8
201	6
206	6
210	5
213	5



ROUND NUMBER - 69

PROJECTILE MASS (GM)-14.904

PROJECTILE TYPE -W-W, FJ, .45 AUTO PROJECTILE VELOCITY (MPS) -322.88

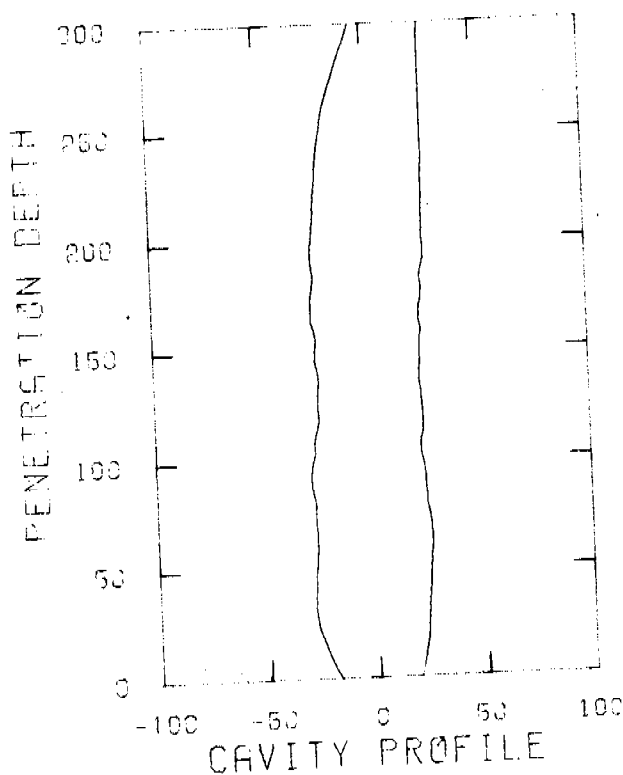
PROJECTILE DIAMETER (CM) - 1.153

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
18	96	96
46	101	101
82	98	98
117	97	98
157	86	87

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
------------------------------	-----------------------



PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	18
4	20
9	21
13	23
18	24
23	25
28	25
32	26
37	26
42	26
46	26
51	26
56	26
60	26
65	26
70	26
74	26
79	25
84	26
88	26
93	26
98	25
103	24
107	24
112	24
117	23
121	23
126	23
131	23
135	22
140	23
145	24
149	23
154	23
159	24
163	24
168	24
173	25
177	25
182	24
187	25
191	26
196	26
201	25
205	25
210	25
215	24
219	24

ROUND NUMBER 69 CONTINUED

I	224	24
I	229	24
I	234	24
I	238	24
I	243	23
I	248	23
I	252	22
I	257	22
I	262	22
I	266	21
I	271	20
I	276	19
I	280	18
I	285	18
I	290	17
I	294	16
I	299	15
I	304	14
I	309	14
I	313	13
I	0	0

ROUND NUMBER -- 331

PROJECTILE MASS (GM) --11.988

PROJECTILE TYPE --W-W, FMJ, .45 ACP

PROJECTILE VELOCITY (MPS) --283.46

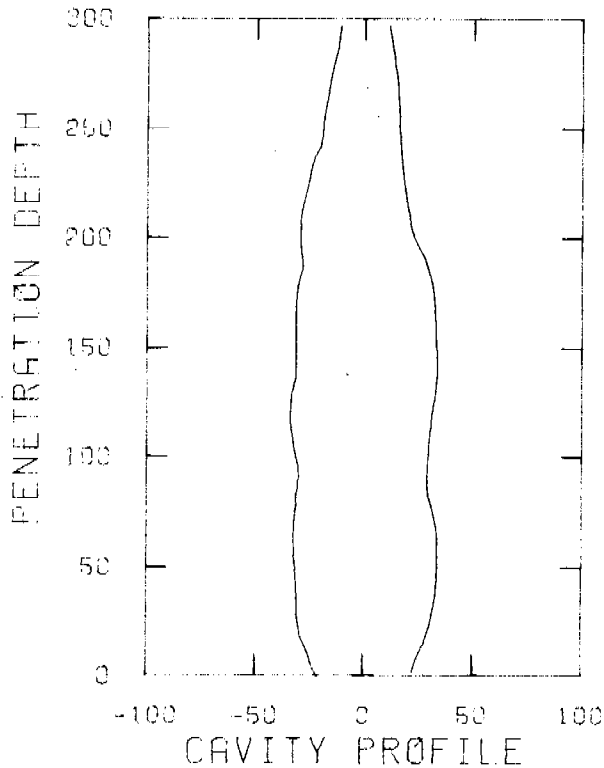
PROJECTILE DIAMETER (CM) -- 11.481

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-8	78	84
15	87	88
44	82	89
76	67	90
106	42	90
171	115	115
180	134	134

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	21
I	4	23
I	9	25
I	13	27
I	18	29
I	22	30
I	27	31
I	32	31
I	36	31
I	41	32
I	45	32
I	50	32
I	54	33
I	59	33
I	64	33
I	68	32
I	73	31
I	77	30
I	82	30
I	86	29
I	91	29
I	95	29
I	100	30
I	104	31
I	109	31
I	114	32
I	118	32
I	123	33
I	127	33
I	132	32
I	137	32
I	141	32
I	146	32
I	150	32
I	155	32
I	159	32
I	164	31
I	168	31
I	173	31
I	177	30
I	182	29
I	187	28
I	191	28
I	196	26
I	200	26
I	205	25
I	209	24
I	214	23



ROUND NUMBER 331 CONTINUED

I	218	23
I	223	22
I	228	21
I	232	20
I	237	19
I	241	18
I	246	17
I	251	17
I	255	17
I	260	16
I	264	16
I	268	15
I	273	14
I	278	14
I	282	13
I	287	12
I	292	11
I	296	10
I	301	10
I	305	9
I	310	8
I	315	7
I		

ROUND NUMBER -- 332

PROJECTILE MASS (GM) --11.988

PROJECTILE TYPE --W-W, FMJ, .45 ACP

PROJECTILE VELOCITY (MPS) --334.98

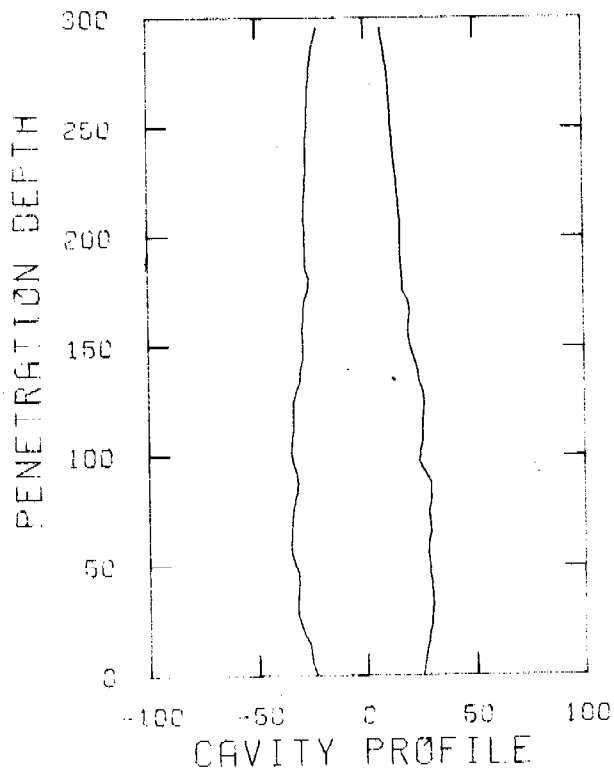
PROJECTILE DIAMETER (CM) -- 11.481

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-6	93	93
21	103	103
55	99	99
92	93	93
129	89	93
202	37	88
214	23	75

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	24
I	4	25
I	9	26
I	14	27
I	18	28
I	23	30
I	27	30
I	32	31
I	37	30
I	41	30
I	46	30
I	50	30
I	55	31
I	60	31
I	64	31
I	69	31
I	73	31
I	78	31
I	83	30
I	87	30
I	92	29
I	97	29
I	101	29
I	106	29
I	111	29
I	115	29
I	120	30
I	124	29
I	129	28
I	133	27
I	138	26
I	143	25
I	147	24
I	152	24
I	157	24
I	161	23
I	166	24
I	170	23
I	175	21
I	180	21
I	184	21
I	189	21
I	194	21
I	198	21
I	203	21
I	207	22
I	212	21
I	217	21



ROUND NUMBER 332 CONTINUED

I	221	20
I	226	20
I	230	20
I	235	20
I	240	19
I	244	19
I	249	19
I	254	18
I	258	18
I	263	18
I	267	18
I	272	17
I	277	17
I	281	16
I	286	16
I	290	15
I	295	14
I	300	13
I	304	12
I	309	11
I	314	10
I	318	9
I	323	9
I		

ROUND NUMBER -- 333

PROJECTILE MASS (GM) --11.988

PROJECTILE TYPE --W-W, FMJ, .45 ACP

PROJECTILE VELOCITY (MPS) --387.71

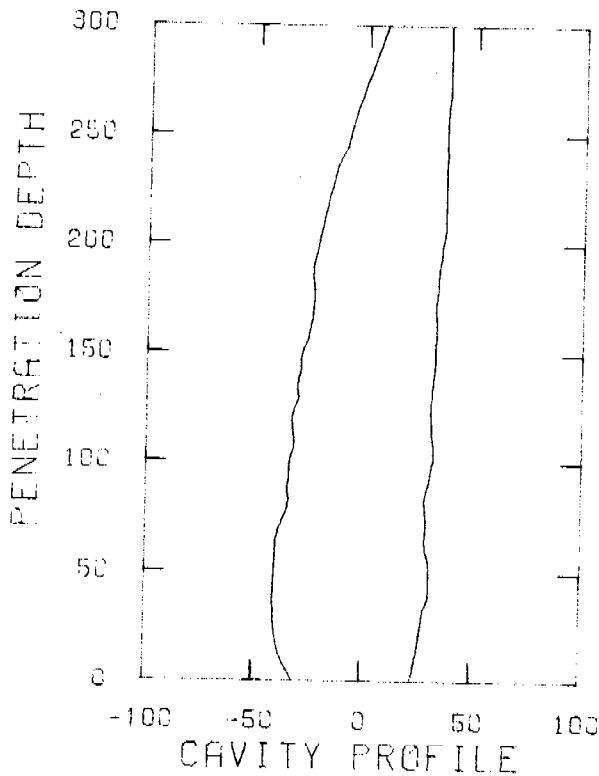
PROJECTILE DIAMETER (CM) -- 11.481

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-3	101	101
27	88	88
66	93	94
108	97	97
151	96	97
230	0	74
243	0	90

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	27
I	4	28
I	9	30
I	13	31
I	18	32
I	22	33
I	27	34
I	32	34
I	36	35
I	41	35
I	46	35
I	50	35
I	55	35
I	59	34
I	64	34
I	69	33
I	73	33
I	78	31
I	82	31
I	87	32
I	91	32
I	96	32
I	101	32
I	105	32
I	110	31
I	115	31
I	119	31
I	124	31
I	128	30
I	133	31
I	138	30
I	142	30
I	147	30
I	152	30
I	156	29
I	161	28
I	165	28
I	170	27
I	175	28
I	179	28
I	184	28
I	188	28
I	193	28
I	198	28
I	202	28
I	207	28
I	212	27
I	216	27



ROUND NUMBER 333 CONTINUED

I	221	26
I	225	26
I	230	25
I	234	24
I	239	24
I	244	22
I	248	22
I	253	21
I	258	21
I	262	20
I	267	19
I	271	19
I	276	18
I	281	17
I	285	17
I	290	16
I	294	15
I	299	14
I	304	13
I	308	12
I	313	11
I	318	11
I		

ROUND NUMBER -- 334

PROJECTILE MASS (GM) --14.904

PROJECTILE TYPE --W-W, FMJ, .45 ACP

PROJECTILE VELOCITY (MPS) --355.09

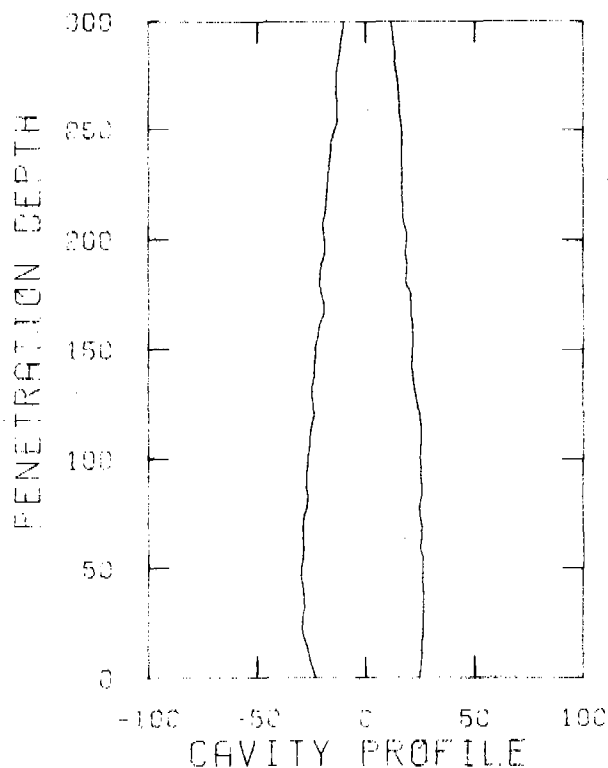
PROJECTILE DIAMETER (CM) -- 11.481

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-2	97	97
28	104	104
66	99	99
110	101	101
156	108	108
256	108	108
273	100	100

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	23
I	4	24
I	9	25
I	13	26
I	18	27
I	22	27
I	27	27
I	32	27
I	36	27
I	41	27
I	45	27
I	50	27
I	55	27
I	59	26
I	64	27
I	69	27
I	73	26
I	78	25
I	82	26
I	87	26
I	92	26
I	96	25
I	101	25
I	106	25
I	110	25
I	115	24
I	119	24
I	124	23
I	129	23
I	133	23
I	138	22
I	142	22
I	147	21
I	152	22
I	156	21
I	161	21
I	166	19
I	170	19
I	175	20
I	179	19
I	184	19
I	188	19
I	193	18
I	198	18
I	203	19
I	207	18
I	212	17
I	216	17



ROUND NUMBER 334 CONTINUED

I	221	17
I	225	16
I	230	16
I	235	16
I	239	16
I	244	16
I	249	15
I	253	14
I	258	14
I	262	14
I	267	14
I	272	14
I	276	13
I	281	12
I	286	12
I	290	12
I	295	11
I	299	10
I	304	10
I	309	10
I	313	10
I	318	9
I	322	9
I		

ROUND NUMBER -- 329

PROJECTILE MASS (GM) --16.524

PROJECTILE TYPE --W-W, LRN, .45 ACP

PROJECTILE VELOCITY (MPS) --334.98

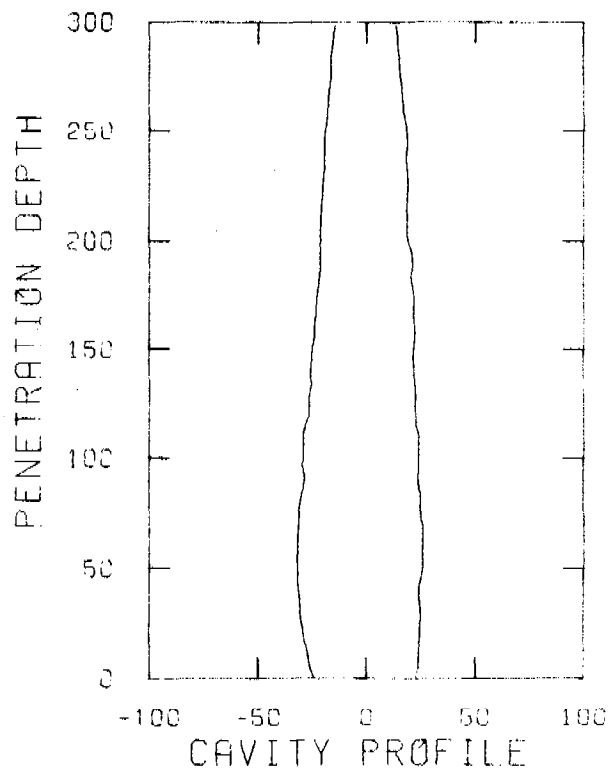
PROJECTILE DIAMETER (CM) -- 11.481

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-7	97	97
21	109	109
58	97	98
98	96	97
141	103	106
230	50	83
243	43	88

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	23
I 4	24
I 9	25
I 13	25
I 18	26
I 23	26
I 27	27
I 32	27
I 36	27
I 41	27
I 46	28
I 50	28
I 55	28
I 59	28
I 64	29
I 68	28
I 73	28
I 78	27
I 82	27
I 87	26
I 91	25
I 96	26
I 100	26
I 105	26
I 110	26
I 114	25
I 119	24
I 123	24
I 128	24
I 133	23
I 137	23
I 142	23
I 146	23
I 151	23
I 155	22
I 160	22
I 165	22
I 169	22
I 174	22
I 179	21
I 183	20
I 188	21
I 192	21
I 197	20
I 201	19
I 206	19
I 210	19
I 215	19



ROUND NUMBER 329 CONTINUED

I	220	19
I	224	19
I	229	19
I	234	18
I	238	18
I	243	18
I	247	18
I	252	18
I	257	17
I	261	17
I	265	16
I	270	16
I	275	15
I	279	15
I	284	15
I	289	14
I	293	14
I	298	13
I	302	13
I	307	12
I	312	11
I	316	10
I	320	9
I		

ROUND NUMBER -- 330

PROJECTILE MASS (GM) --16.524

PROJECTILE TYPE --W-W, LRN, .45 ACP

PROJECTILE VELOCITY (MPS) --375.21

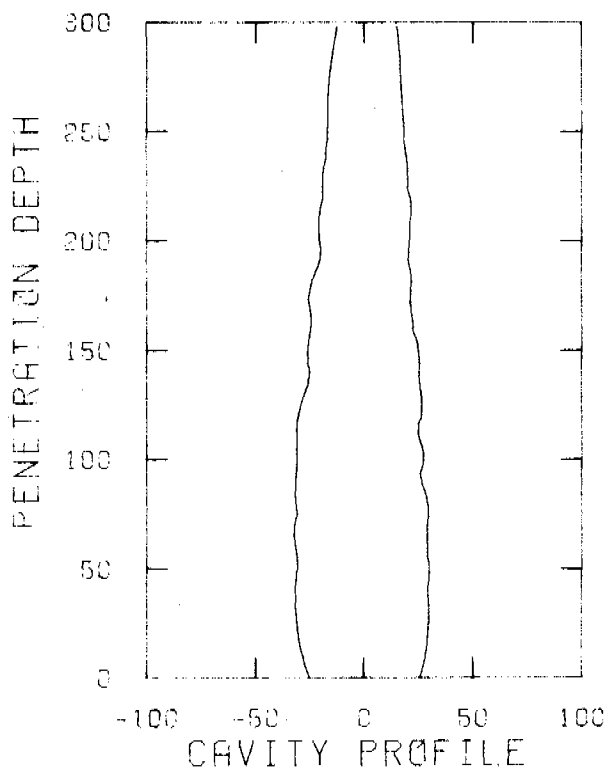
PROJECTILE DIAMETER (CM) -- 11.481

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
-4	94	94
26	105	105
67	102	102
111	106	106
157	107	107
254	73	90
269	64	86

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	25
I	4	27
I	9	28
I	14	29
I	18	29
I	23	30
I	28	30
I	32	30
I	37	30
I	41	30
I	46	30
I	51	30
I	55	29
I	60	30
I	65	30
I	69	30
I	74	30
I	79	30
I	83	30
I	88	29
I	93	28
I	97	28
I	102	29
I	106	28
I	111	27
I	116	27
I	120	28
I	125	27
I	130	26
I	134	25
I	139	24
I	144	25
I	149	25
I	153	24
I	158	23
I	162	23
I	167	23
I	172	23
I	176	23
I	181	22
I	186	21
I	190	20
I	195	19
I	200	20
I	204	20
I	209	20
I	214	20
I	218	20



ROUND NUMBER 330 CONTINUED

I	223	19
I	228	19
I	232	19
I	237	18
I	242	18
I	246	17
I	251	17
I	256	17
I	260	17
I	265	16
I	270	16
I	274	16
I	279	15
I	284	15
I	288	15
I	293	14
I	297	13
I	302	12
I	307	11
I	312	10
I	316	9
I	321	8
I		

ROUND NUMBER - 171

PROJECTILE MASS (GM) - 6.480

PROJECTILE TYPE -ZERO, JHP

PROJECTILE VELOCITY (MPS) -154.96

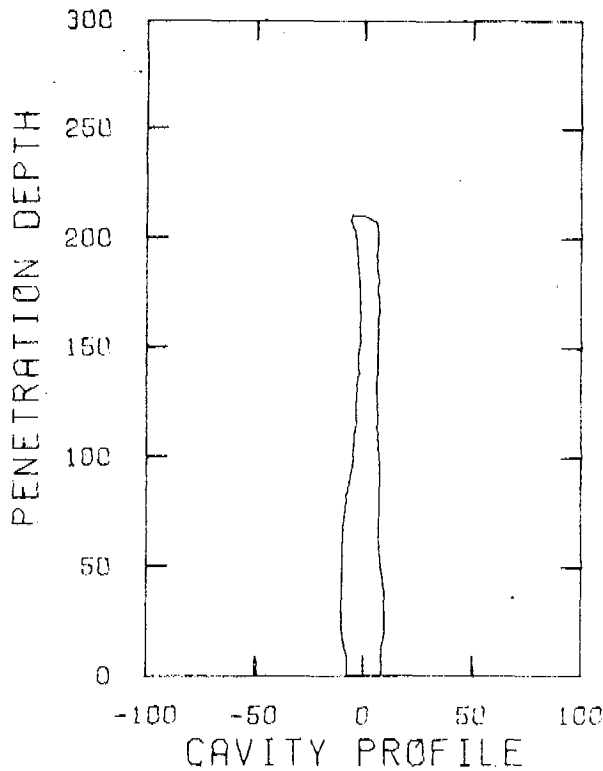
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
2	56	56
33	48	48
33	54	54
68	51	51

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	7
4	7
9	7
13	8
18	9
22	10
27	10
32	10
36	9
41	9
45	9
50	8
55	8
59	8
64	7
69	7
73	7
78	7
82	7
87	6
92	6
96	6
101	5
105	5
110	5
115	4
119	4
124	4
129	4
133	4
138	4
142	4
147	4
152	3
156	4
161	4
165	4
170	4
174	3
179	4
184	4
188	4
193	4
198	5
202	5
207	5
210	2
0	0



ROUND NUMBER - 168

PROJECTILE MASS (GM) - 6.480

PROJECTILE TYPE - ZERO, JHP

PROJECTILE VELOCITY (MPS) - 232.14

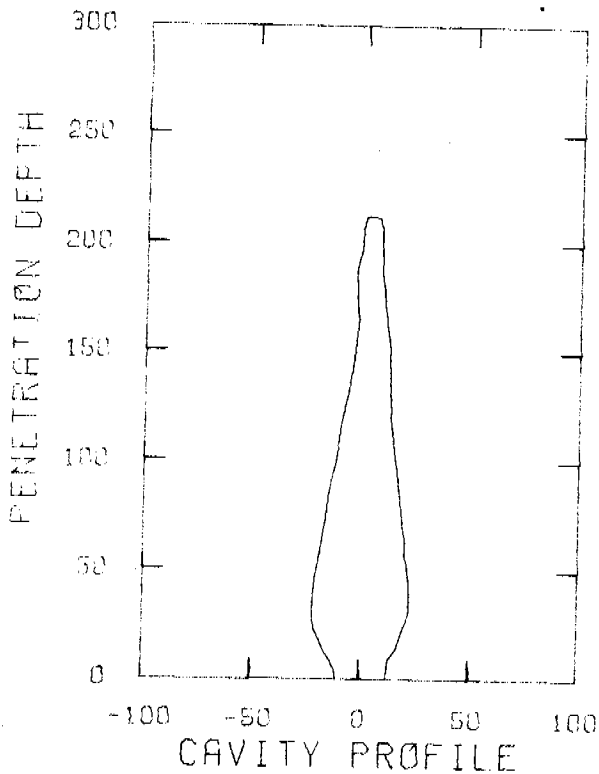
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
6	62	62
24	103	103
47	108	109
69	93	95
90	103	104

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	11
4	12
9	13
13	17
18	18
22	20
27	21
32	22
36	22
41	22
45	21
50	20
55	19
59	19
64	18
68	18
73	17
78	16
82	16
87	15
92	14
96	14
101	13
105	12
110	12
114	11
119	10
124	10
128	9
133	9
138	8
142	8
147	7
151	7
156	7
161	6
165	6
170	6
174	5
179	5
184	5
188	5
193	4
197	4
202	4
206	4
211	2
212	1



ROUND NUMBER - 170

PROJECTILE MASS (GM) - 6.480

PROJECTILE TYPE -ZERO, JHP

PROJECTILE VELOCITY (MPS) -286.47

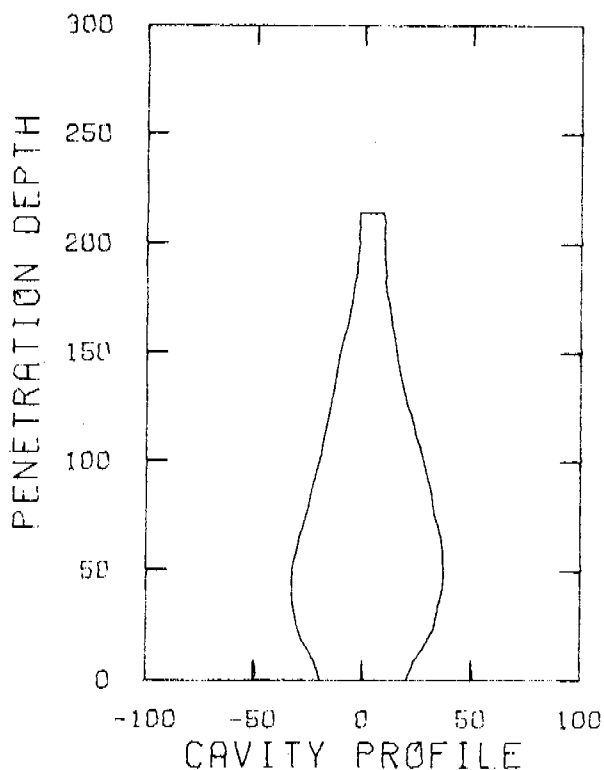
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
9	74	74
29	151	151
55	144	144
79	156	157
101	138	141

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I 0	19
I 4	21
I 9	23
I 13	26
I 18	29
I 23	31
I 27	32
I 32	33
I 36	34
I 41	34
I 46	35
I 51	35
I 55	34
I 60	33
I 65	32
I 69	31
I 74	29
I 79	28
I 83	27
I 88	26
I 93	25
I 97	24
I 102	23
I 107	22
I 111	20
I 116	19
I 121	18
I 125	17
I 130	16
I 135	15
I 139	14
I 148	12
I 153	12
I 158	10
I 163	9
I 167	9
I 172	8
I 177	7
I 181	6
I 186	6
I 190	6
I 195	5
I 200	5
I 204	5
I 209	5
I 214	4
I 0	0
I 0	0



ROUND NUMBER - 169

PROJECTILE MASS (GM)- 6.480

PROJECTILE TYPE -ZERO, JHP

PROJECTILE VELOCITY (MPS) -330.94

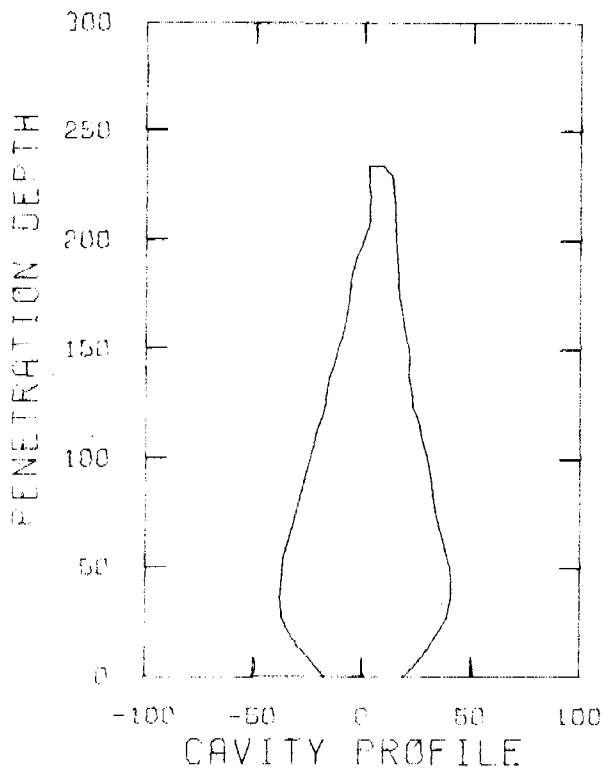
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	97	97
33	118	118
62	112	114
89	118	119
113	120	121

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	18
I	4	22
I	9	26
I	13	30
I	18	33
I	23	36
I	27	38
I	32	39
I	36	39
I	41	39
I	45	39
I	50	38
I	55	37
I	59	36
I	64	34
I	68	33
I	73	32
I	78	31
I	82	30
I	87	29
I	92	28
I	96	27
I	101	26
I	105	25
I	110	24
I	114	22
I	119	21
I	124	19
I	128	19
I	133	18
I	138	17
I	142	17
I	147	16
I	151	15
I	156	14
I	160	13
I	165	12
I	170	11
I	174	11
I	179	10
I	183	10
I	188	9
I	193	8
I	197	7
I	202	6
I	206	5
I	211	5
I	216	5



ROUND NUMBER 169 CONTINUED

I	220	4
I	225	5
I	229	4
I	234	2
I	0	0
I	0	0

ROUND NUMBER - 167

PROJECTILE MASS (GM) - 6.480

PROJECTILE TYPE - ZERC, JHP

PROJECTILE VELOCITY (MPS) - 391.27

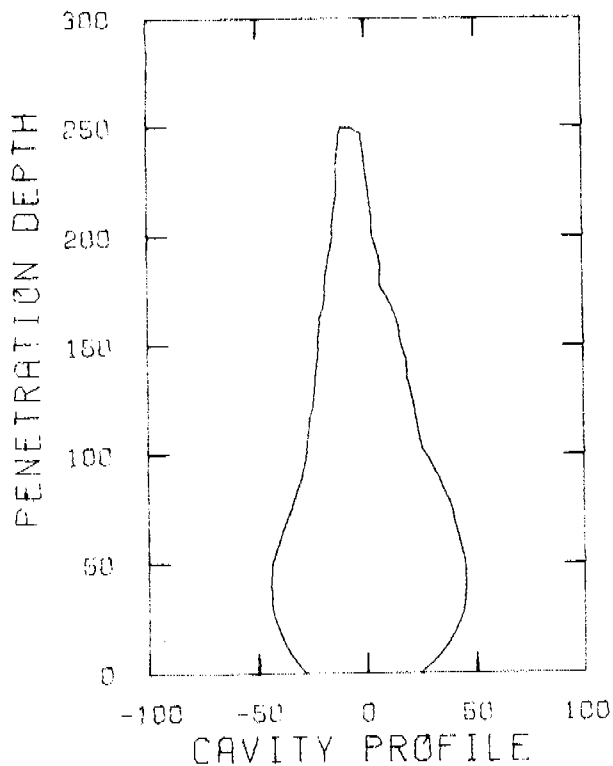
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
13	96	96
40	143	144
74	119	124
102	128	135
130	126	126

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	26
4	31
9	35
13	38
18	40
23	42
27	43
32	44
37	44
41	45
46	44
51	44
55	42
60	41
65	39
70	38
74	36
79	35
83	33
88	31
93	29
97	28
102	26
107	25
111	24
116	24
121	23
125	22
130	21
135	20
139	20
144	19
149	18
153	18
158	17
163	17
167	15
172	13
177	12
181	12
186	11
190	11
195	9
200	8
205	8
209	8
214	7
219	6



ROUND NUMBER 167 CONTINUED

I	223	6
I	228	6
I	232	6
I	237	5
I	242	5
I	246	4
I	249	1
I	0	0
I	0	0

ROUND NUMBER - 222

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -ZERO, JHP

PROJECTILE VELOCITY (MPS) -266.20

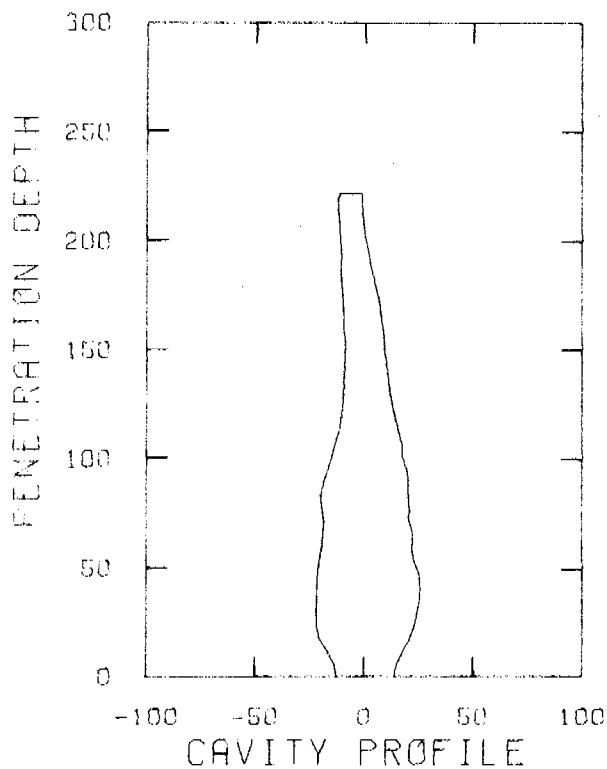
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
9	86	86
30	111	111
55	112	113
79	116	118
101	106	106

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
I	0	13
I	6	14
I	11	17
I	17	21
I	23	22
I	29	23
I	35	23
I	41	23
I	47	23
I	53	21
I	59	20
I	65	20
I	71	19
I	77	20
I	83	19
I	89	19
I	95	17
I	100	16
I	106	15
I	112	13
I	118	12
I	124	11
I	130	10
I	136	10
I	142	9
I	148	8
I	154	8
I	160	8
I	166	8
I	172	8
I	178	7
I	184	7
I	189	6
I	195	5
I	201	5
I	207	5
I	213	5
I	219	5
I	221	4



ROUND NUMBER = 221

PROJECTILE MASS (GM) = 7.128

PROJECTILE TYPE = ZERO, JHP

PROJECTILE VELOCITY (MPS) = 292.23

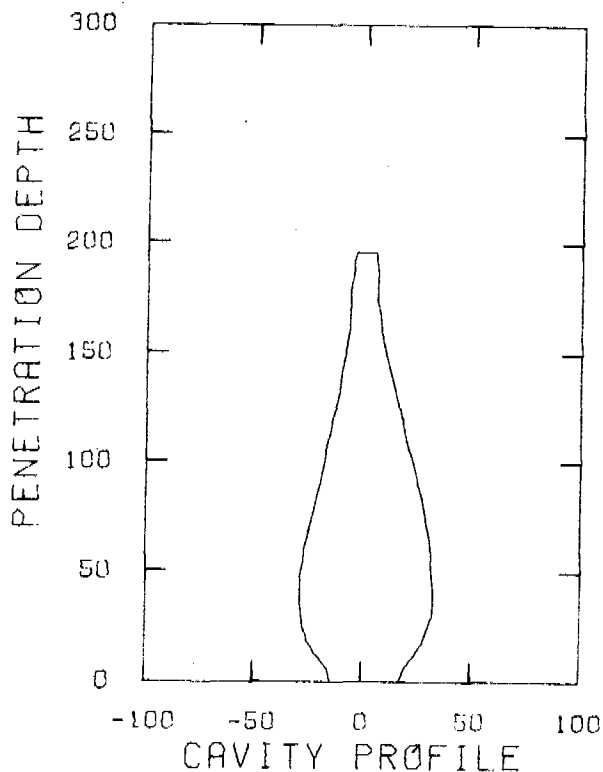
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
9	82	82
30	143	143
56	144	144
80	139	140
101	138	144

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	15
6	17
11	22
17	26
23	28
29	30
35	31
41	31
47	30
53	29
59	29
65	28
71	26
77	25
83	24
89	22
95	21
101	19
107	18
113	16
119	15
125	14
131	12
137	11
143	10
149	9
155	8
161	7
167	6
173	5
179	5
185	5
191	5
195	4
0	0
0	0



ROUND NUMBER - 220

PROJECTILE MASS (GM) - 7.125

PROJECTILE TYPE -ZERO, JHP

PROJECTILE VELOCITY (MPS) -311.98

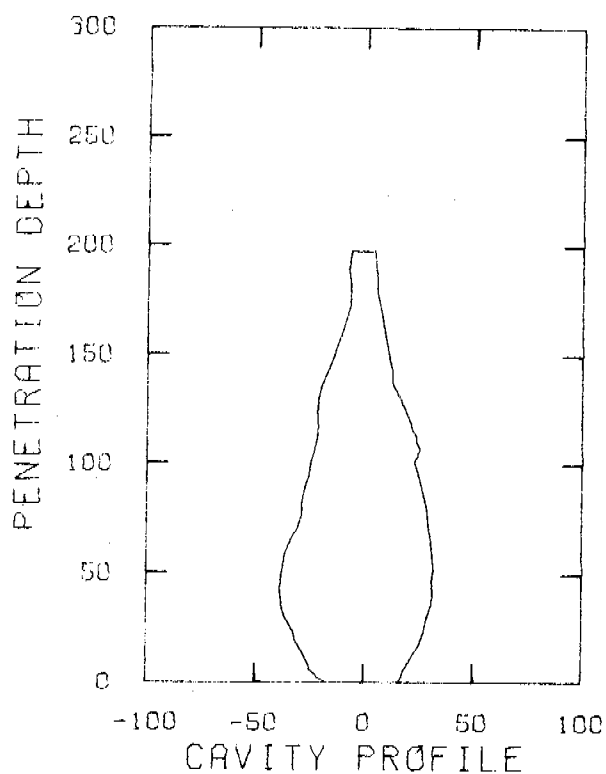
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
10	80	81
32	171	172
59	183	183
82	158	164
104	159	165

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	17
5	21
11	24
17	28
23	30
29	32
35	34
41	35
47	34
53	34
59	33
65	32
71	30
77	28
82	28
88	26
94	25
100	23
106	24
112	22
118	21
124	20
130	18
136	16
142	14
148	12
154	11
159	9
165	8
171	6
177	5
183	5
189	6
195	5
197	5
0	0



ROUND NUMBER = 210

PROJECTILE MASS (GM) = 7.128

PROJECTILE TYPE = ZERO, JHP

PROJECTILE VELOCITY (MPS) = 363.72

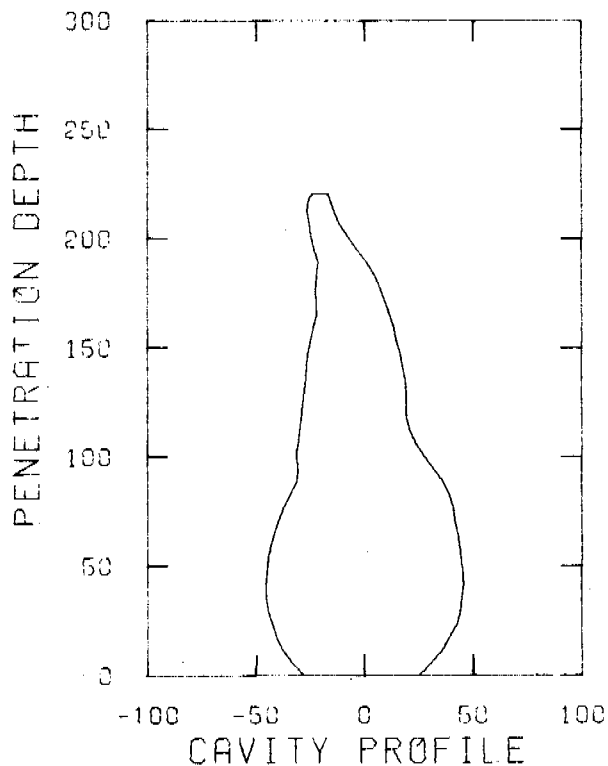
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
12	102	102
37	125	125
67	109	129
94	115	118
119	102	109

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	26
5	32
11	36
17	39
23	42
29	44
35	45
41	45
47	45
53	44
58	43
64	42
70	40
76	38
82	36
88	33
94	31
100	29
106	26
112	25
117	24
123	23
129	23
135	22
141	21
147	21
153	19
159	18
165	16
171	15
176	14
182	13
188	11
194	9
200	8
206	6
212	6
218	4
220	3



ROUND NUMBER - 209

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -ZERO, JHP

PROJECTILE VELOCITY (MPH) -412.45

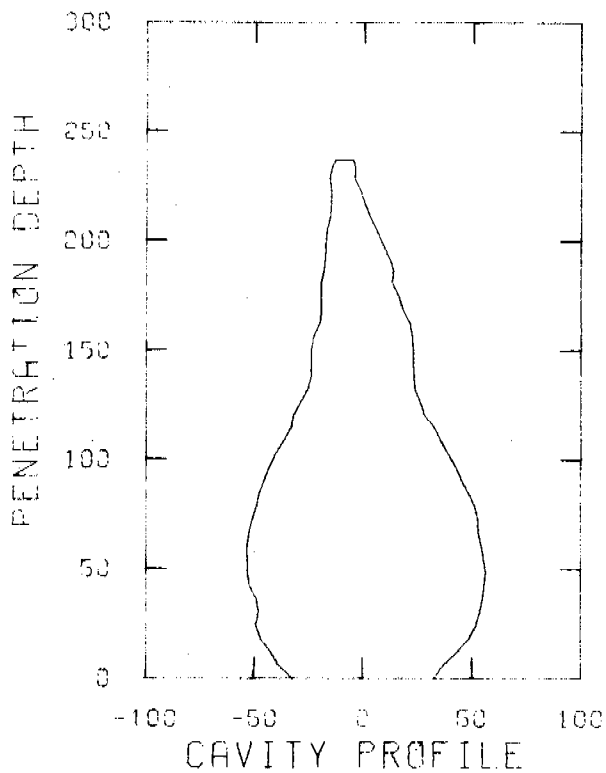
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
19	124	125
47	156	156
77	110	168
105	62	143
132	94	143

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	32
6	37
12	43
18	47
24	50
30	50
36	52
42	54
48	54
54	54
60	53
66	52
72	51
78	50
84	48
90	45
96	42
102	39
108	36
114	32
120	30
126	27
132	24
138	23
144	23
150	23
156	22
162	20
168	18
174	17
180	16
186	15
192	14
198	12
204	11
210	9
216	7
222	6
228	5
234	4
237	3
0	0



ROUND NUMBER - 208

PROJECTILE MASS (GM) - 7.128

PROJECTILE TYPE -ZERO, JHP

PROJECTILE VELOCITY (MPS) -453.57

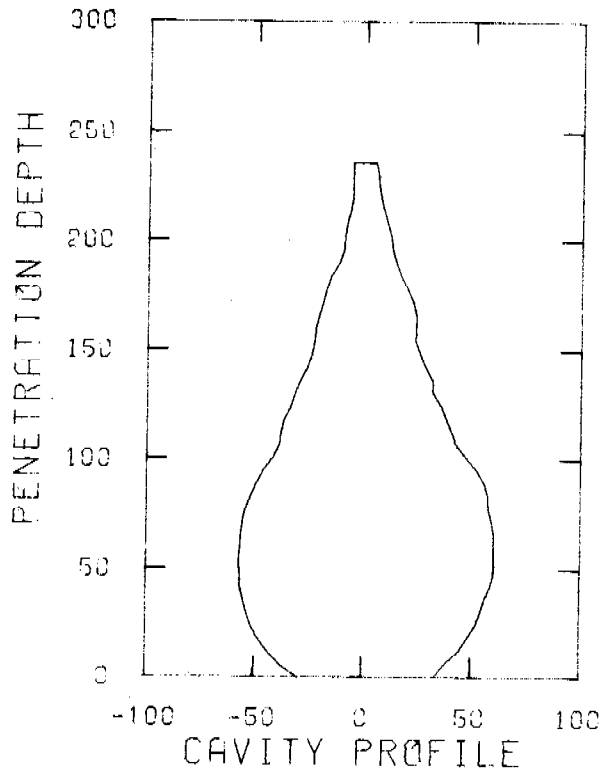
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
15	143	143
44	162	162
79	165	167
107	163	163
133	167	167

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	31
6	37
11	43
18	48
23	51
29	54
35	55
41	57
47	58
53	58
59	58
65	58
71	57
77	55
83	54
88	52
95	49
100	44
106	40
112	39
118	37
124	34
130	31
136	30
142	26
148	24
154	22
160	22
166	22
172	20
178	18
184	15
190	12
195	10
201	10
207	8
213	7
219	6
225	5
231	5
235	4
0	0



ROUND NUMBER - 166

PROJECTILE MASS (GM)- 8.100

PROJECTILE TYPE -ZERO, JHP

PROJECTILE VELOCITY (MPS) -220.87

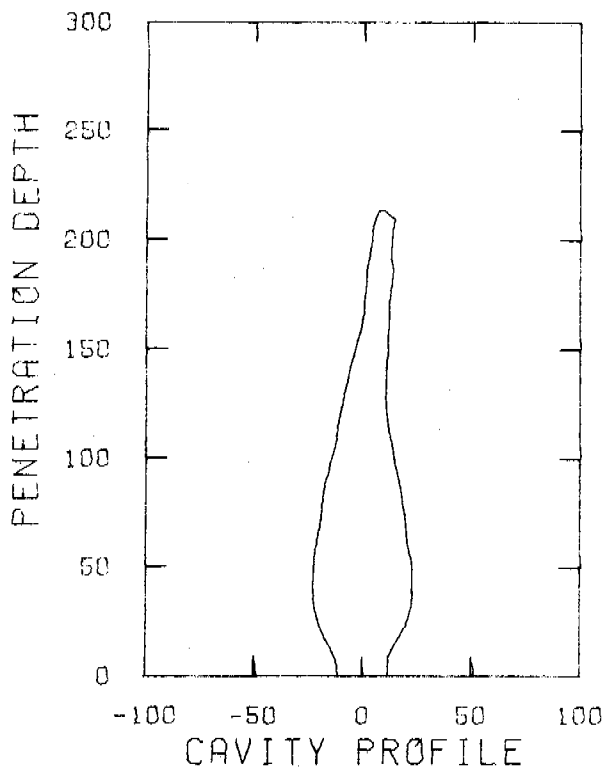
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
6	62	62
23	90	90
45	114	114
66	109	109
86	98	98

I CAVITY MEASUREMENTS

I PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I 0	11
I 4	11
I 9	12
I 13	15
I 18	17
I 23	19
I 27	21
I 32	22
I 37	23
I 41	23
I 46	23
I 51	22
I 55	21
I 60	21
I 65	20
I 69	19
I 74	19
I 79	18
I 83	17
I 88	16
I 93	15
I 97	14
I 102	13
I 107	12
I 111	11
I 116	11
I 121	10
I 125	9
I 130	9
I 135	8
I 139	8
I 144	7
I 149	7
I 153	6
I 158	6
I 162	6
I 167	5
I 172	5
I 177	5
I 181	5
I 186	5
I 190	5
I 195	4
I 200	4
I 204	4
I 209	4
I 213	0
I 0	0



ROUND NUMBER = 219

PROJECTILE MASS (GM) = 5.100

PROJECTILE TYPE = ZERO, JHP

PROJECTILE VELOCITY (MPS) = 254.85

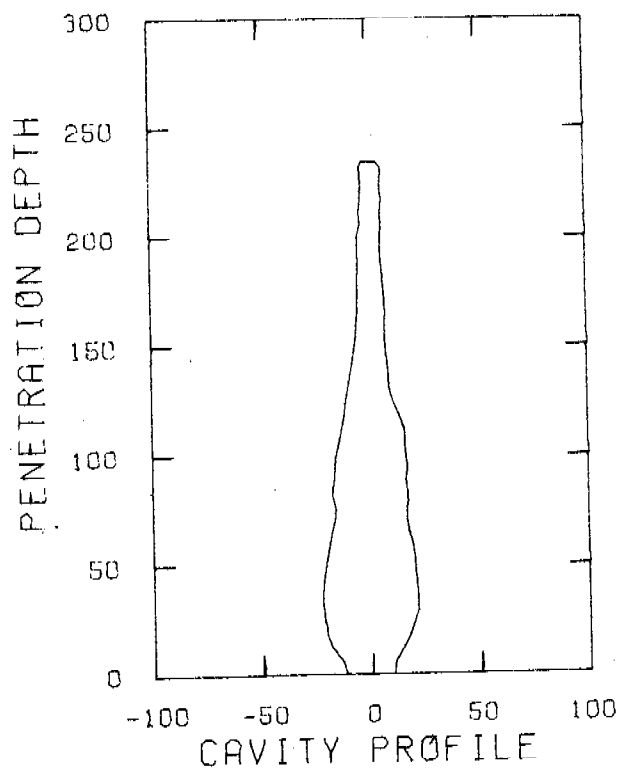
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
7	63	63
27	98	99
52	117	118
77	104	104
101	115	116

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	11
5	12
11	16
17	18
23	20
29	22
35	22
41	21
47	20
53	20
58	19
64	17
70	16
76	16
82	17
88	16
94	16
100	15
105	15
111	14
117	12
123	11
129	9
135	8
141	8
147	7
153	6
158	6
164	6
170	6
176	5
182	5
188	5
194	5
200	5
206	4
211	4
217	4
223	4
229	4
232	4
234	3



ROUND NUMBER - 218

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -ZERO, JHP

PROJECTILE VELOCITY (MPS) -283.80

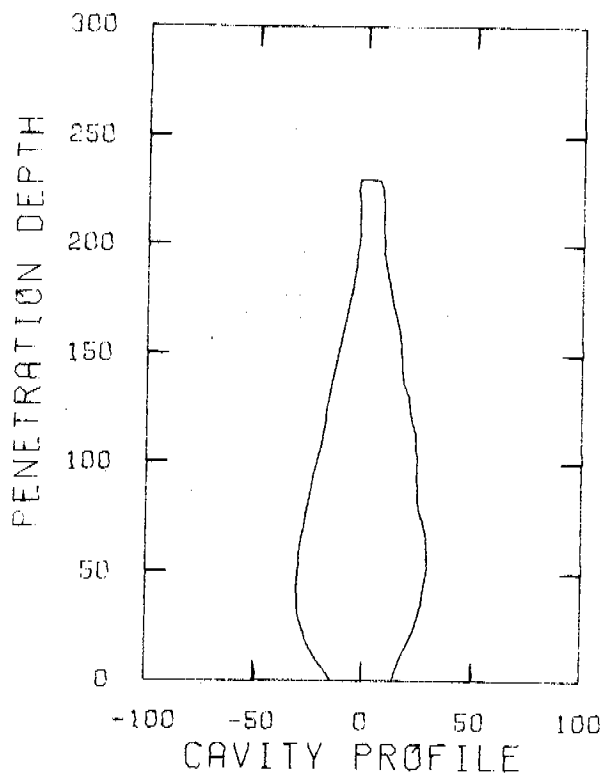
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
10	75	76
31	119	120
57	114	114
82	143	143
104	131	133

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	14
6	17
11	20
17	23
23	25
29	27
35	28
41	29
47	29
53	29
59	29
65	28
71	27
77	25
83	24
89	24
94	23
100	22
106	21
112	21
118	19
124	18
130	17
136	16
142	15
148	14
154	13
160	12
166	11
172	9
178	8
184	7
190	6
195	5
201	5
208	5
213	5
219	5
225	5
227	4
229	4
0	0



ROUND NUMBER - 165

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -ZERO, JHP

PROJECTILE VELOCITY (MPS) -286.47

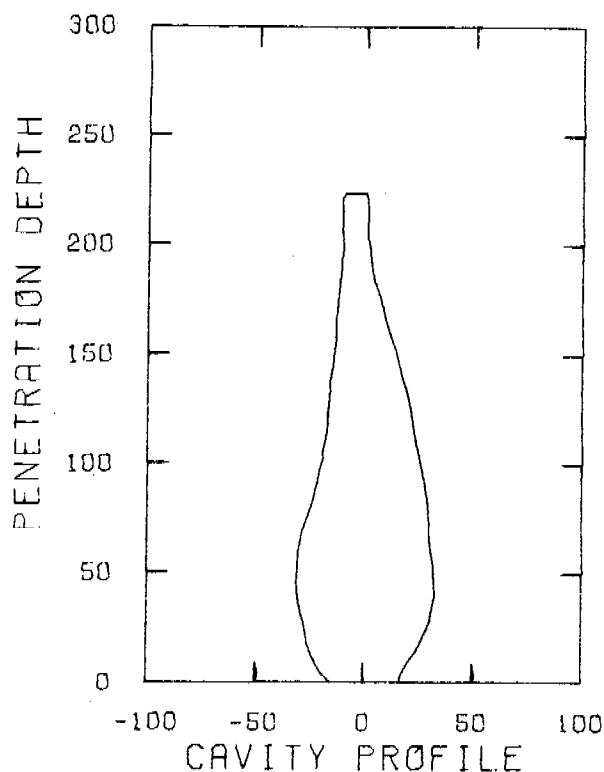
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
9	64	64
30	138	138
57	139	139
82	140	140
106	139	140

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	16
I	4	18
I	9	21
I	13	24
I	18	26
I	22	27
I	27	29
I	32	30
I	36	31
I	41	32
I	46	32
I	50	31
I	55	31
I	59	30
I	64	29
I	69	29
I	73	28
I	78	27
I	82	26
I	87	25
I	92	24
I	96	23
I	101	22
I	106	21
I	110	20
I	115	19
I	119	19
I	124	18
I	129	17
I	133	17
I	138	16
I	143	15
I	147	14
I	152	13
I	156	12
I	161	11
I	166	10
I	170	10
I	175	9
I	179	8
I	184	7
I	189	6
I	193	6
I	198	5
I	203	5
I	207	5
I	212	5
I	216	5



ROUND NUMBER 165 CONTINUED

I	221	5
I	223	4
I	0	0

ROUND NUMBER = 217

PROJECTILE MASS (GM) = 8.100

PROJECTILE TYPE = ZERO, JHP

PROJECTILE VELOCITY (MPS) = 297.66

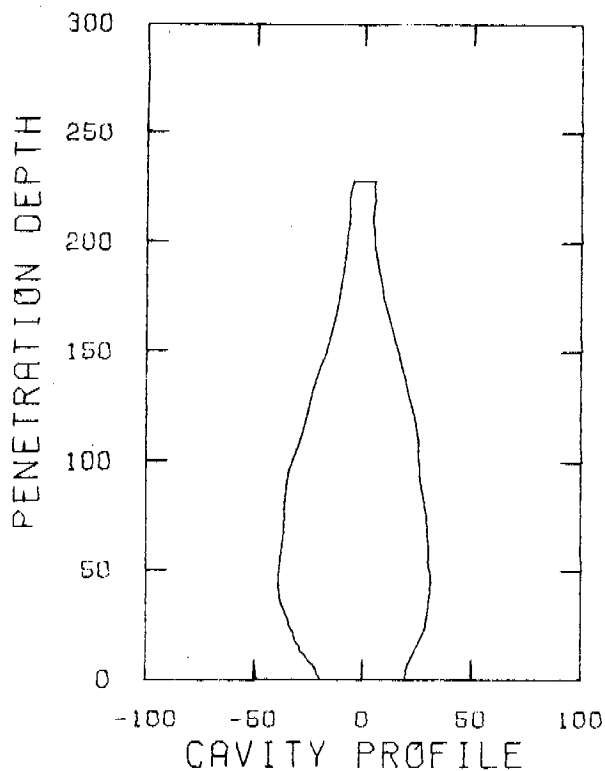
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
8	73	73
30	143	145
58	150	151
83	166	166
107	169	160

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	19
I	5	21
I	12	25
I	17	28
I	23	30
I	29	32
I	35	34
I	41	35
I	47	35
I	53	34
I	59	33
I	65	33
I	71	32
I	77	32
I	83	31
I	89	30
I	95	29
I	101	28
I	107	27
I	113	25
I	119	24
I	125	23
I	131	21
I	137	20
I	143	18
I	149	16
I	155	14
I	161	13
I	167	11
I	173	10
I	179	9
I	185	8
I	191	7
I	197	6
I	203	6
I	208	5
I	215	5
I	220	5
I	226	4
I	228	4
I	0	0
I	0	0



ROUND NUMBER - 164

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE - ZERO, JHP

PROJECTILE VELOCITY (MPS) - 326.34

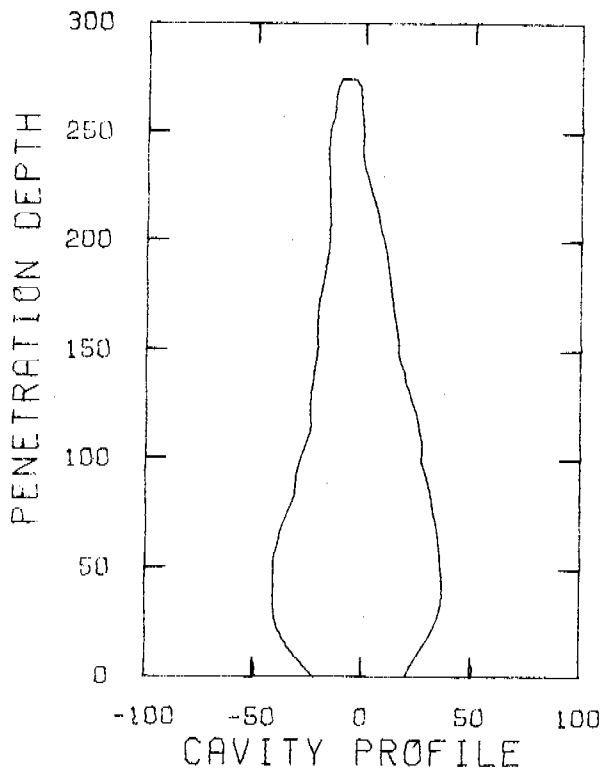
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
10	84	84
33	202	202
64	143	143
92	131	135
119	140	141

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	21
I	4	24
I	9	27
I	13	30
I	18	34
I	23	36
I	27	37
I	32	38
I	37	39
I	42	39
I	46	39
I	51	38
I	55	38
I	60	37
I	65	36
I	70	35
I	74	33
I	79	32
I	83	31
I	88	30
I	93	29
I	98	28
I	102	27
I	107	26
I	112	25
I	116	24
I	121	24
I	126	23
I	130	22
I	135	21
I	140	20
I	144	19
I	149	18
I	154	18
I	158	18
I	163	17
I	168	17
I	172	16
I	177	15
I	181	15
I	186	14
I	191	13
I	195	12
I	200	12
I	205	11
I	210	10
I	214	10
I	219	9



ROUND NUMBER 164 CONTINUED

I	224	9
I	228	8
I	233	7
I	238	7
I	242	7
I	247	7
I	252	7
I	256	6
I	261	5
I	266	5
I	270	4
I	274	2

ROUND NUMBER - 204

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -ZERO, JHP

PROJECTILE VELOCITY (MPS) -360.28

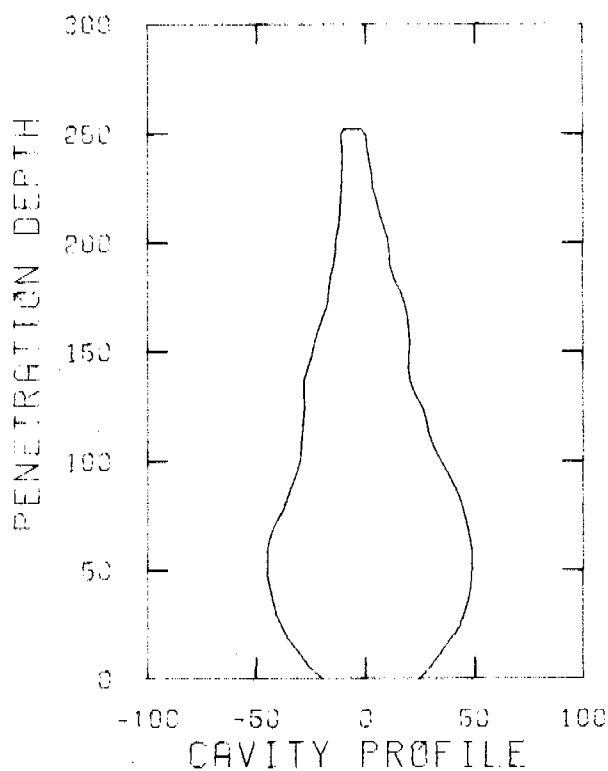
PROJECTILE DIAMETER (CM) - 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
12	102	102
38	204	204
78	167	167
87	180	181
122	185	185

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS(MM)
0	22
6	28
11	32
18	37
23	40
29	43
35	44
41	46
47	47
53	47
59	47
65	45
71	43
77	41
83	39
89	37
95	34
101	31
106	30
112	28
118	28
124	27
130	25
136	24
142	22
148	22
154	21
160	20
166	19
172	17
178	16
184	14
189	12
196	12
201	11
207	10
213	8
219	7
225	6
231	6
237	5
243	5
249	5
252	3
0	0



ROUND NUMBER = 203

PROJECTILE MASS (GM) = 8.100

PROJECTILE TYPE -ZERO, JHP

PROJECTILE VELOCITY (MPS) = 379.10

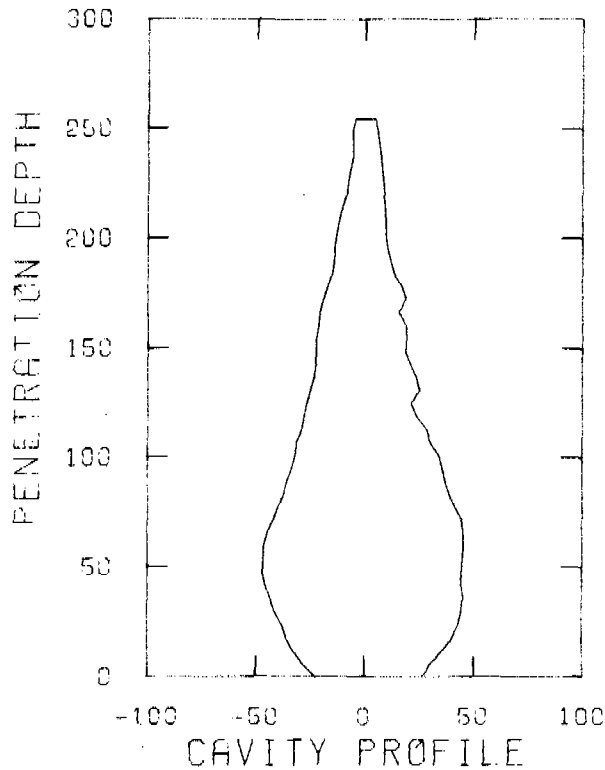
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
14	111	111
40	141	141
72	115	115
100	105	107
128	109	109

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	24
5	29
11	34
18	38
23	40
29	42
35	44
41	45
47	45
53	45
59	46
65	45
71	43
77	40
83	38
89	36
94	34
100	32
106	30
112	28
118	25
124	23
130	25
136	23
142	21
148	20
154	20
160	19
166	17
172	18
178	16
184	14
190	12
195	11
201	11
207	10
213	9
219	8
225	7
231	7
237	6
243	5
249	5
254	4
0	0



ROUND NUMBER - 163

PROJECTILE MASS (GM) - 8.100

PROJECTILE TYPE -ZERC, JHP

PROJECTILE VELOCITY (MPS) -382.91

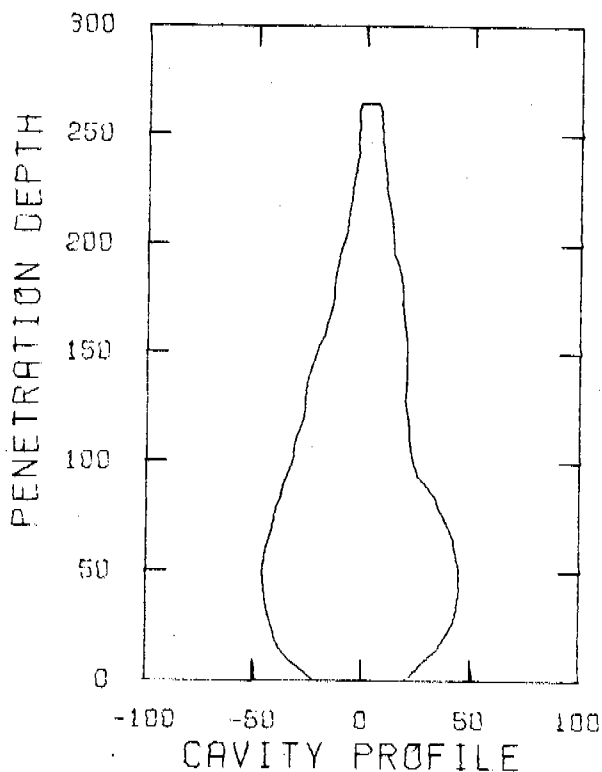
PROJECTILE DIAMETER (CM) - .907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
14	94	94
40	120	120
75	125	125
103	106	118
132	117	145

I CAVITY MEASUREMENTS

I	PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
I	0	20
I	4	26
I	9	31
I	13	36
I	18	39
I	23	41
I	27	42
I	32	44
I	37	44
I	41	45
I	46	45
I	51	45
I	55	44
I	60	43
I	64	42
I	69	40
I	74	39
I	78	37
I	83	35
I	88	33
I	92	30
I	97	28
I	102	27
I	106	26
I	111	25
I	116	24
I	120	23
I	125	23
I	129	22
I	134	22
I	139	22
I	144	21
I	148	20
I	153	20
I	157	18
I	162	17
I	167	16
I	171	15
I	176	15
I	181	15
I	185	14
I	190	13
I	195	12
I	199	11
I	204	10
I	209	10
I	213	9
I	218	8



ROUND NUMBER 163 CONTINUED

I	222	7
I	227	7
I	232	6
I	236	6
I	241	5
I	246	5
I	250	5
I	255	4
I	260	4
I	264	3
I	266	3
I	0	0

ROUND NUMBER = 202

PROJECTILE MASS (GM) = 8.100

PROJECTILE TYPE = ZERO, JHP

PROJECTILE VELOCITY (MPS) = 428.09

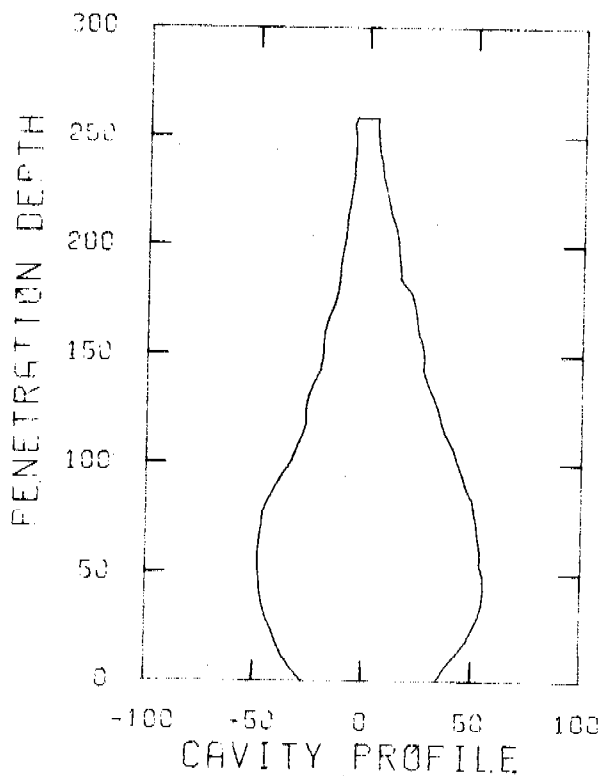
PROJECTILE DIAMETER (CM) = 0.907

PROJECTILE DEFORMATION

PENETRATION DISTANCE (MM)	PRESENTED AREA (MM**2)	CROSS-SECT AREA (MM**2)
16	136	136
45	148	148
80	134	134
110	161	161
138	152	152

CAVITY MEASUREMENTS

PENETRATION DISTANCE (MM)	CAVITY RADIUS (MM)
0	31
6	35
12	40
18	43
23	46
29	49
35	50
41	51
47	51
53	51
59	51
65	50
71	49
77	48
83	47
88	44
95	41
100	38
106	35
112	32
118	30
124	30
130	28
136	26
142	23
148	23
154	22
160	21
166	20
172	18
178	16
184	14
189	13
196	12
201	12
207	11
213	9
219	8
225	7
231	6
237	6
243	5
249	4
255	5
258	4



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